# he Mining Journal RAILWAY AND COMMERCIAL GAZETTE.

forming a complete record of the proceedings of all public companies.

No. 825 .--- Vol. XXI.]

LONDON, SATURDAY, JUNE 14, 1851.

PRICE 6D.

IMPORTANT SALE OF VALUABLE MACHINERY, TOOLS, &c., AT THE CLARENCE FOUNDRY, LIVERFOOL.

MR. T. M. FISHER AND SON will SELL, BY AUCTION, on the Promises, at Eleven o'clock in the forencen, each day, from Wednesday, the 9d of July, to Saturday, the 16th of August, both inclusive, all the valuable MACHINERY, TOOLS, AND STOCK IN TRADE, of that extensive establishment, consisting of THREE HIGH-PRESSURE and ONE CONDENSING STEAM-ENGINES, with bollers, cisterns, pipes, &c., varying in power from 5 to 30 horses each.

TWO large and powerful horizontal BORING MILLS, the largest capable of boring cylinders 120 inches diameter, 14 feet stroke, and with a face-plate 114 feet diameter, capable of turning 18 feet diameter, the other mill capable of boring cylinders as inches deep, and to feet 6 inches diameter, capable of turning 12 ft. in diameter, in the solid control of turning 18 feet diameter, the other mill capable of the ring 12 ft. in diameter, in the solid control of turning 18 feet diameter, the other mill capable of turning 19 ft. in diameter, the solid control of turning 18 feet diameter, and the solid control of turning 19 ft. in diameter, the solid control of turning 18 feet diameter, and solid control of turning 18 feet diameter, and the solid control of turning 18 feet diameter, and the solid control of turning 18 feet diameter, and the solid control of turning 18 feet diameter, and the solid control of turning 18 feet diameter, and the solid control of turning 18 feet diameter, and the solid control of turning 18 feet diameter, and the solid control of turning 18 feet diameter, and 18 feet feet in feet of the solid control of turning 18 feet diameter, and a feet deep, and the solid control of turning 18 feet of turning in turning 18 feet of turning 18 feet of turning machines, adont to the solid control of turning 18 feet o

Catalogues are now roady, and may be had on the premises, and from the anctioneers No. 39, Princes street, Manchester, who will forward the same, on application, by post any time before the sale.

TO CAPITALISTS.

TO BE SOLD, A SLATE AND SLAB QUARRY, situate within 6d, per ton cost water carriage from an excellent port in CARNARYON-SHIRE, excensively opened and ready for immediate productive operation. The LEASE is for TWENTY-ONE YEARS full - Royalty 1-12th. The WIDTH of the VEIN Is about SIXTY YARDS, and its dip, inclination, and stratification are similar to the same features in the great Festining Quarries. The METAL is of the very FIRST QUALITY, wholly free from adplur or other blemish, kind in rending and working, true in cleavage, and, from its purity, density, and tenacity, is admitted to be superior to the produce of most quarries for the various purposes for which slate slab is polished and enamelied. The colour is a beautiful blue, tinged with purple.

A waterfail descends within 100 yards of the quarry, which supplies an inexhaustible motive-power for the working of machinery.

There are crected on the premises an OFFECE, fitted-up complete; an extensive well-built ENGINE-HOUSE, capable of containing double the present power of machinery, which now comprises a capital water-wheel, 27 feet in diameter, two large circular awing machines, one large planing machine, water launders, gearing, and everyfuling in the most convenient and complete order, together with about 2000 feet of bur-fron for traumond, waggons, sledges, and every requisite necessary in the working of a quarry. A quantity of slabs has been quarried and manufactured, and a price of 8- per square yard has been obtained for the produce at the quarry.

Satisfactory reasons will be shown for the Glossal of the property, and any gentleman or company wanting an investment of this description will find this an opportunity rarely presented, as it is confidently asserted that the ments of this quarry, and its local advantages for facilis and commical working, are certainly unrivaled in the Frincipality.

WILL BE SOLD A BARGAIN.

Apply to Mr. James Bywater, mining agent, 79, Christian-street, Liverpool.

Apply to Mr. James Bywater, mining agent, 79, Christian-street, Liverpool.

TO BE SOLD, the WHOLE, or PART, of the TAKEE'S INTEREST in the GRANT, for THIRTY-ONE YEARS, from the date of lease (which can be demanded at any time), of a considerable TRACT OF LAND, abundant in MINERAL VEINS, situate at TALSARORA, in MERIONETHISHIRE, on the opposite coast to Port Madoc, and but one mile distant from a shipping place.

This district, in which is situate the Crafinant Mine, famous for the richness of its ores, is admitted by all miners to be in the highest degree metalliferous, and that the strata of ground in which the many strong, regalar, and well-defined lodes running through this soft are located, are highly congenial for copper.

A shaft has been sunk upon one lode to the depth of about 6 fathoms, from which a quantity of mundic has been raised, as also about 2 tons copper ore, producing 13 p. cent. Feeling perfectly convinced that a rich deposit of ore will be found at the same shallow depth as at the Crafmant Mine, the advertises would prefer selling a part of his interest to selling the whole, so that the means, not at present at his command, may be raised to further prosecute the undertaking.

Apply to James Bywater, mining agent, 79, Christian-street, Liverpool.

CARMARTHENSHIRE.

PO BE IMMEDIATELY SOLD, OR LET, BY PRIVATE CONTRACT, on a long lease of years, upon moderate and advantageous terms, SEVERAL VEINS OF ANTHRACITE COAL AND IRON ORE,

SEVERAL VEINS OF ANTHRACITE COAL AND IRON ORE, containing about 112 seres of land.

There are FOUR VEINS OF COAL—one is 6 feet thick, and the three others above 3 feet each, which will yield such a quantity of coals as to produce, by a royalty of 6d, per ton only, apwards of \$50,500. The Black-band is about 14 inches thick, and will yield, by the like royalty, apwards of £18,150.

There are, besides, several STRATA of RED IRON ORES on these premises, which, together with the value of the sarface, are to he taken into consideration.

These premises are on the banks of the Aman, on the alimement of the Liancelly Rail-road, and within about a quarter of a mile of \$t\$, on an inclined plane; and it is believed that the South Waics Railroad will form a junction with the Liancelly Railroad in the course of this year, whereby there will be a communication with the kingdom.

There is also a Quarry of very fine FLAGGTORES upon these lands.

For further particulars apply to Thomas Parry, Esq., or to Mr. John Williams, soil-

particulars apply to Thomas Parry, Esq., or to Mr. John Williams, soll-then.—Carmarthen, June 10, 1851. NORTH WALES .- SLATE AND SLAB QUARRY.

NORTH WALES.—SLATE AND SLAB QUARRY.

TO BE DISPOSED OF, for a term of years, the valuable

SLATE and SLAB QUARRY, called ESGAIR QUARRY, situated in the parish

PERNAL, in the county of MERIONETH. This Quarry was opened at considerable

xpense by the late proprietor, and is now to be dispused of, in consequence of his death.

The quality of the Stone has been proved to be sound and good, and there is every fathe quality of the Stone has been proved to be sound and good, and there is every falility for working, there being ample fall for rubbish, and a pientiful supply of water
flows at hard.

tope at mmt.

The Quarry is within about a mile of the Machynlieth and Corris turnpike-road, an istant from the shipping place of Derwenias about five miles—thus rendering the expect of carriage very inconsiderable.

For further particulars apply to Mr. David Howell, solicitor, Machynlieth.

COLLIERY OWNERS.—FOR SALE, BY PRIVATE CONTRACT,—THREE HUNDRED FATHOMS of PUMPS, 114 to 134 inches in ameter; 3 breas working barrels, 12 inches in diameter, and 10 feet 6 inches long; ditto ditto, 13 inches in diameter, and 10 feet 6 inches long; and 10 feet 6 inches long. Also, bucket and clack doorpieces, spears, spearates, and bolts, and bottom-rods, complete, for six sets of pumps.

Application to be made at the Wearmouth Colliery, Sunderland.

Wearmouth Colliery, June 6, 1451.

TO CAPITALISTS, COALOWNERS, AND OTHERS.—
TO BE LET, with early possession, A COLLERY, situate in the South Work, hitre Coal District, on the line of the Midland Railway, and within a short distance on he Manchester, sheffield, and Lincolnshire Railway, by which ready access is obtained o excellent markets, at a small cost. The saam now being got averages from 3 ft. 6 in o 3 ft. 9 in. in thickness, of which about 100 acres are yet to get. There are also two ther seams, each about 5 feet thick, beneath the one now being worked.

There are the requisite cottages, offices, workshops, &c., on the premises, and the collecty is fitted with all necessary plant for carrying on an extensive trade, which can be given at a valuation. Sufficient reasons can be given for the present counter declining

further particulars, and to view the colliery, apply (by letter) to " 2","

DATENT IMPROVEMENTS IN CHRONOMETERS.

WATCHES AND OLOGES.

E. J. DENT, 55, Strand; 35, Cockspur-street; 34, Royal Exchange (clock tower area), atch and Clock Maker, 37 APPOINTENT, to the Queen and his Royal Highner times Albert, but to acquaint the public, that the manufacture of his chronometers.

MR. JAMES CROFTS, of 4, KING-STREET, CHEAPSIDE,
MINING BROKER, renews his OFFERS of SERVICE to CAPITALISTS seeking the means of SECURE INVESTMENTS, which can be made to yield an annual
income of 15 to 20 per cent.,

A. Garage, Mr. Grand, Mr. Charles, Mr. Charles,

Income of 15 to 20 per cent.,

Allt-y-Crib (10 shares)
Appledore (10 shares)
Appledore (10 shares)
Bedford United (5 shares)
Bodnin Consols (5 shares)
Borning (40 shares)
Daren (10 shares)
Daven and Courtenay (50 shares)
East Tamar (20 shares)
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Wheal Trescoll (220 shares) MR. CROYTS HAS SPECIALLY FOR SALE-

er annum interest.

a\*s\_Mr. Chorre is not a dealer in shares, but transacts business only for principals.

No. 4, King-street, Cheapside, June 14, 1851.

No. 4, King-street, Cheapside, June 14, 1851.

MR. JAMES CROFTS, with a view to his own guidance in RECOMMENDING INVESTMENTS in MINES in the UNITED KINGDOM, and for the satisfaction of his Friends who may honour him with their confidence, proposes to catabilish a REGISTRY OF MINES, to be derived from parties interested either as adventurers or managers. In furtherance of this object, Mr. Caopus solicits information, not embracing mere reports, but of a statistical character, such as an account of the capital expended or employed on a given undertaking—the returns per mouth, and the expected rate of dividend in dividend mines, and the general prospects of all others.

Such information will be registered in a book to be kept for the purpose, and open to intended investors, with reference, if required, to the parties furnishing the same, so as to exampt Mr. Caopus from responsibilities, except such as he may voluntarily incur as a test of facts. Of course, the information both received and given must be free of charge. Dated No. 4, King street, Cheapside, June 13, 1851.

MR. J. H. MANDEVILLE,
MINING AND GENERAL SHARE AGENT,
No. 23, CHANGE-ALLEY, CORNHILL.

MR. JAMES NAPIER, CONSULTING CHEMIST.—
Mr. J. NAPIER respectfully intimates that he ASSAYS and ANALYSES
ORES and METALS, and EXAMINES SOILS and ARTICLES used in the CHEMICAL
ARTS and MANUFACTURES. He say be consulted on the application of his Reports
to Manufacturing purposes, and is willing to give assistance confidentially in working out
Chemical Patents.—Orders and sample-parcels may be addressed to the care of MogazGriffin and Co., 40, Buchanan-street, Glasgow.—Hamilton-place, Partick,

MR. ALFRED SENIOR MERRY, DEALER IN COBALT AND NICKEL ORES, AND ASSAYER IN GENERAL.—Address: LEE-CRESCENT, BIRMINGHAM.

MR. BELL WILLIAMS, MINE BROKER and VIEW 16, CASTLE-STREET, LIVERPOOL.

MR. JOHN DAVIES, MINING SHAREBROKED

MINING SHARES.—Mr. HENRY VATCHER, EXETER OFFERS his ADVICE and ASSISTANCE to PARTIES willing to INVEST in the ABOVE SECURITIES. Ten years' residence in Exeter, together with periodica visits to rearry all the Mines in Devon and Cornwall, enables him to become thoroughly acquainted with their respective merits.—Mr. VATCHER has at his command, at all time practical and experienced agents, so that if any inspection is required, the same of the content of

MINING AND RAILWAY OFFICES, No. 3, CASTLE. TERRACE, EXETER.—Mr. JOHN JURY, RAILWAY and MINING SHARE BROKER, OFFERS his SERVICES to CAPITALISTS in the PURCHASE or SALE of ANY DESCRIPTION OF PROPERTY; and will be happy to point out a selection of such stock as appear the most elligible, from data that can only be servived at by those who give an undivided attention to the subject.—Every information strorded (either in person or by letter) to capitalists wishing to invest or exchange their securities, and asles or pur chases effected upon the best terms, and at one-half the commission usually charged.

MINING INVESTMENT.—THOMAS FULLER AND CO., 51, THREADNEEDLE-STREET, LONDON, have on hand DEVON CONSOLS NORTH: this mine is situate and adjoining the celebrated Devon Great Consols Copper Mine, having the same stratum of ground, and running parallel with and having the same great cross-courses, and within a short distance of the present rich tode of these productive mines, which, with £1 paid, are now marketable at £310, and paying £45 per annum in dividends.—T. Fuller and Co. have also SHARES in Appledore Silver Lead, Wheat Caradon Copper, Peter and May Tavy Consols, Whoat Franco, &c., and will plug pleasure in furnishing all particulars connected therewith.

MINING OFFICE,—3, GEORGE-YARD, LOMBARDTREET.—Measra TREDINNICK & CO. (formerly of Three Kings-court and 52, Threadneedle-street, London) beg to inform their numerous Friends that they have RESUMED BUSINESS at the ABOVE ADDRESS, of FORCHASING and SELLING SHARES in MINES, RAILWAYS, and other FOBLIC COMPANIES, as well as the NEGOTIATION of every description of MONETARY MATTERS, together with Continuous MININGSION BUSINESS in GENERAL.

MISSION BUSINESS in GENERAL.

MINING AND SHARE OFFICES,
No. 7, GEORGE-VARD, LOMBARD-STREET.
Messrs, H. BOXALL & CO., in announcing their REMOVAL from Crosby Hall Charabers to the ABOVE ADDRESS, beg respectfully to solicit a CONTINUANCE of FAVOURS as liberally conferred, and at the same time to call the attention of PARTES secking profitable INVESTMENTS to the advantages which MINING PROFERTY offers "when judiciously selected," as compared with any other securities: it may be sufficient to state they can be bought to pay from 18 to 25 per cent, per anusm. This is a savourable time for purchasing dividend-paying stock, while greates caution was nover more required than at present in selecting from the many new, "and some vorthless," schemes, such as are likely, to be eventually remunerative.

Gur Mr. B. having become a member of the New Mining Exchange, we are in a position to do fall justice to our friends, either in the PURCHASE OF DISFOSAL of MINING PROPERTY. We publish a daily List of Prices of what may be termed "Active Stop" which we shall be happy to forward to any parties requiring the same.—April 16.

MINING OFFICES, No. 75, OLD BROAD-STREET.—
Mr. 7. P. THOMAS bega to inform his briends that he has REMOVED from
60. 3, George yard, to the ABOVE ADDRESS, where he hopes to receive a continuous

MR. T. JORDAN, MINING SHARE & METAL BROKE. MESSRS. TREVARTON AND CO., MINING SHARE DEALERS AND BROKERS,—6, ST. JAMES'S-STREET, PALL-MALL.

MR. PEET, MINING AGENT, 48, THREADNBEDLE-STREET

NOTIFICATION OF THE PART OF TH

DURRANT & CO., MINING SHARES.

OF MINING SHARES.

SHARES FOR DISPOSAL.

Wheat Mary Ann

Wellingtons

West Caradon

Trelaway

West Baller

Trovinkey

Tolgus

Tolgus

Tolgus

WANTED TO BORROW, ON MORTGAGE, upon one of the finest COLLIERIES in England, SEVENTEEN THOUSAND POUNDS.

The lessees have full powers given to mortgage, and the securities they offer are valued at £61,000. The mines are in full working operation, and the veins have been proved to be the finest of the kind in the district. The mines will take at least 190 years to clear, and be in full working operation. The money required would be returned in 18 years, to sult the parties making the advance, and 5 per cent. per annum would be given, and paid half-yearly.—Apply by letter to 45, Gibson's-square, Islington, London.

MANAGER WANTED FOR THE COPPER SMELTING
WORKS OF THE MINES ROYAL COPPER COMPANY, IN WALES.
AMANAGER IS REQUIRED, who is practically acquainted with the OLDER and
more RECENT MODES OF SMELTING COPPER ORES; and it is described that he
should have had either the entire or an important part in the management of works,
this description.—Applications to be made (by letter quily), with references, address Ag
the Secretary, Mines Royal Company, Dowgabe, London.—June 13, 1851.

TO BUILDERS, &c.—PERSONS desirous of TENDERING for the ERECTION of the BUILDERS' WORK for the NEW MARKET HOUSE, BOLTON, can INSPECT the DRAWINGS, and obtain printed Specifications and Quantities at the office of the architect, Mr. G. T. Robinson, S. Castle-street, Wolverhampton, from Monday, the 7th July, until Wednesday, the 16th July; and at the offices of the Town Cierk, Bolton, from Thursday, the 17th July, until Thursday, the 81st July. Sealed tenders to be delivered on or before the 1st of August, at the offices of Mr. Z. Knowles, Town Clerk, Bolton.

TO IRON FOUNDERS, &c.—PERSONS desirous of TENDERING for the ERECTION of the IRONWORK for the NEW MARKET HOUSE, BOLTON, can INSPECT the DRAWINGS, and obtain printed Specifications and Quantities at the offices of the architect, Mr. G. T. Robinson, 2, Castle-street, Woternhampton, from Monday, the 7th July, until Wednesday, the 16th July; and at the offices of the Town Clerk, Bolton, from Thursday, the 17th July, until Thursday, the 37st July. Scaled tenders to be delivered on or before the 1st of August, at the offices of Mr. Knowles, Town Clerk, Bolton.

BRITISH ELECTRIC TELEGRAPH COMPANY.

TENDER FOR WORKS.

TO CONTRACTORS FOR EARTHWORK, PIPE-LAYING, &c.

The BRITISH ELECTRIC TELEGRAPH COMPANY are desirons of RECEIVING TENDERS for the PERFORMANCE of their TRENCH WORK between LIVERPOOL and MANCHESTER. -Specifications may be seen, on and after Thursday, the 19th inst. at the Central Offices af the Company, Royal Exchange, London: and at their offices is Manchester and Liverpool.

Central Offices, Royal Exchange, London: June 6, 1851.

MECHANICAL SELF-ACTING CLOG-PATENT ECHANICAL SELF-ACTING CLOG—PATEM:

RIGHT FOR SALE.—In Class XVI., No 128, in the Great Exhibition, is an IMPROVED CLOG, but in the Official Catalogue, it appears, by tolatake, in Class XX., No. 244.—The CLOG exhibited, though in appearance like the ordinary Fronch Clog, is as constructed that, by means of a drop-heel connected with a lever and spring, it can be put on and removed from the foot with the greatest ease, without stooping or touching it with the hands. Patented by the inventor, Mr. George Robarts, surgeon-dentiar, Tavistock.—For price of patent right, and further particulars, apply to Measrs. Campin and Co., patent agents, 156, Strand, London; or Mr. Robert Luxion, Guildhall-building Tavistock, at either of which places a model of the invention can be seen.

TO BE LET, for any term of years the taker may desire, a SLATE QUARRY, at WELLTOWN, within a mile of the Harbour of Boscastle, now in the occupation of Mr. Avery, of Boscastle, the proprietor, to whom application may be made.—Boscastle, May 19, 1851.

A LLT-Y-CRIB MINE.—At a MEETING of the Committee of this Mine, it is this day determined, that CERTIFICATES are UNNECESSARY, and are the, fore cancelled. All transferr of shares to be made in the usual way, through no, as pure. of the mine.—June 7, 1851. (Signed) EDW. HOLLOWAY.

CEFN GWYN SILVER-LEAD MINE:—NOTICE,
APPLICATIONS for the remaining SHARES of the NEW 188UE in this Mini
CANNOT BE RECEIVED after the 25th JUNE last.
JOHN BOWES, Secretary,
41, Threadneodic street, City.

REAT BRYN CONSOLS COPPER AND TIN MINE
Situate in the parish of WITHEL, near BODMIN, CORNWALL.
Applications for the remaining shares to be made to the Committee of Management
W. M. Kearra, Esq., No. 3, Biomabury-place, Bloomsbury-square; or to Mr. Leisan
No. 6, Crosby-hall Chambars, Bishopsgate-street, London.

ENERAL MINING ASSOCIATION.—Notice is hereby given, that the YEARLY GENERAL MEETING of the proprietors in this Company will be HELD at this Office on Thursday, the 26th day of June, at One o'clock in the afternoon precisely, for the purpose of receiving and considering a Report of the Directors, of announcing a dividend, and of transacting the ordinary business of the Association.—At this meeting Nathaniel Gould, Esq., and Henry Warre, Esq., two of the present directors and William Digby Seymour, Esq., one of the auditors, will vesate their seats by rotation, and being immediately eligible, are candidates for re-election.

By order of the Board of Directors, J. B. FOORD Secretary.
Office of the General Mining Association, 52, Old Broad-street, London; June 10, 1061.

KINZIGTHAL MINING ASSOCIATION.—NOTICE OF CALL.—Notice is hereby given, that the DIRECTORS of the KINZIGTHAL MINING ASSOCIATION.—NOTICE OF CALL.—Notice is hereby given, that the DIRECTORS of the KINZIGTHAL MINING ASSOCIATION have this day made a CALL of TEN SHILLINGS (or Six Florins) per share, and have appointed the same to be PAID, on or before the 23d June, to their bankers—viz.:

Messrs. Masterman, Peters, and Co.

In Stutgerd

Messrs. Docretenbach and Co.

By the Starutes of the Association, interest, at the rate of 5 per cent. per annum, will be charged upon all sums in arrear after the 23d of June.

By order of the board,

GEO. COPELAND CAPPER, Secretary.

London, May 31, 1851.

LORIGON, any 3r, 1891.

KENMARE AND WEST OF IRELAND COPPER
AND SILVER-LEAD MINING COMPANY.—Notice is hereby given, that an
EXTRAORDINARY GENERAL MEETING of the shareleolders in the above Company
will be HeLD at the Offices, 62, Moorgate-street, London, on Thursday, the 36th day of
June Inst., at Twelve o'clock at noon, for the purpose of receiving the Reports of Mr.
Hoskins, the agent appointed by the Company to inspecting mines, and considering and
confirming the contracts and engagements entered into by the Directors on behalf of the
Company for the purchase of the mines, steam-engine, Splant, and for the transactive
of business generally.

MARMATO MINING COMPANY Notice is hereby given, that the ANNUAL GENERAL MEETING the proprietors of this Company will be HELD at No. 13, Austinfriars, on Monday, At this meeting one director will be elected, in the place of J. D. Powles, Seq., who goes out by rotation, but is eligible to be re-elected.

By order of the Directors, 13, Austinfriars, June 10, 1851.

WEST WHEAL JEWEL MINING ASSOCIATION.

Notice is hereby given, that a SPECIAL GENERAL MEETING of the shareholders will be HELD at the Company's Offices, as under, or Wednesday, the 8d day of July next, to confirm the Resolution unanimously passed ay 8 special General Moeting, held on the 8d inst., for the purpose of increasing the capital of the Associatios, in conformity with the provisions of the Deed of Settlement:

WM. NICHOLSON, Sec. 57, Old Broad-street, June 6, 1851.

EUROPEAN GAS COMPANY.—Notice is hereby given, that
the ANNUAL GENERAL MEETING of the proprietors will be HELD on Thursday, the 26th day of June lust, at the hour of Two gelock precisely, at the office of the
Company, 3, Moorgate-street, London, pursuant to the provisions of the Deed of Settlement. Two directors retire by rotation, but being eligible, will be proposed for re-election.

By order of the board,
HY. McL. BACKLEE, Secretary,
London, June 7, 1851.

FRANCIS'S MINING OFFICES, 7, JOHN-STREET, ADELPHI.

—The great importance of the Mining Interest at the present moment renders its
necessary that every means should be adopted to place its operations on the platnest and
fairest foundation.

## Briginal Correspondence.

THE NATURAL PHENOMENA OF MINERAL VEINS.

THE NATURAL PHENOMENA OF MINERAL VEINS.

Sin,—The few general observations which I transmitted to your Journal of May 31st were simply based on certain obvious appearances of Nature, and adduced as such data, mainly for the purpose of directing the attention of your scientific correspondents to their cluddation, and not with any intention, at the present perfed, at least, of joining in an analytical controversy of the grand problems therain involved, as to the origin, &c., of mineral lodes; and I should not, therefore, have adverted now to them again, but that I think it is due to myself, as well as to one especially, of the two scientific gentlemen who, in your pathication of the 7th inst, have been pleased to speak in complimentary terms of my communication, but who, severtheless, have a leetle misropresented me, that I offer a few words in explanation of the points referred to.

First, as regards Mr. Dumaresq's remark, that "he is gratified to find I am no longer of the igneous school!" I must beg to assure him that I never did entertain any predilection for the more exclusive study of those scorching regions, nor ever countenanced one tythe of the mighty upturnings, dislocations, and rendings which many of our geological savans still love to ascribe to fathomless plutonic threes, but whose comparative shallowness, it would seem, is on the eve of being put to the test by the present galloping progress of the utilitarian; for I observe it reported in your Journal of last week that a project is actually on foot, with an eye to the reclamation of "fine lands," to put a Neptunian extinguisher on Mount Vesuvius!

Having so long been in the habit of observing things as they are in nature I never could come to any other extending things as they are in nature I never could come to any other extending things as they are in nature I never could come to any other extending things as they are in nature I never could come to any other extending things as they are in nature.

your Journal of lass week that a project is actually on foot, with an eye to the reclamation of "fine lands," to put a Neptunian extinguisher on Mount Vesuvius!

Having so long been in the habit of observing things as they are in mature, I never could come to any other conclusion, with respect to the formation of lodes of fracture, than that they have been gradually opened by a lateral crystalline force; and, in this particular, I am glad to find that not only Mr. Dumareaq and myself, but our worthy friend the magneto-crystalographer of the mining world, do most palpably—to use an antiquated phrase—"make our flutes agree." But my vigilent friend would seem to accuse me of wishing to appropriate, or to taroish, the sparkling fame of the author of the crystalline theory, and that, too, whilst he is absorbed in the pursuit of more "attractive metal." This is rather a grave charge; but, if I have done so, it was quite inadvertantly, and in a very small way, little dreaming that the abstraction of a single crystal or two from such a Kooh-i-noor, would be any more likely to be missed than the robbing a pane of glass from the Crystal Palace would detract from its brilliancy, or lessen its utilitarian properties. However, Mr. Dumaresq has certainly rather mistaken my meaning in this particular. I was only ambitious to show that, in illustrating the crystalline theory by such striking examples as Mount Calvo presents, I was not aware that they had been similarly applied to the formation, &c., of mineral lodes, or that this crystalline action had been attributed to their spontaneous formation on the large scale in their destined sinuous courses, as intimated in my article.

A word or two now with my other critic, Mr. Coxworthy, whose cranium, like that of the redombtable Knickerbocker's, appears to be big with one sides—" Electrical Condition," and which, though it may not be too large for him to turn round, is certainly of such prominent dimensions as to grate and knock hard against every subject it may chance to come i

those of heat and cold.

Mr. Coxworthy, plunging into the mighty and mystical vista of his oxygen and glacial epoch, fills the lode "cracks," made, he says, by the "apiffing action," with "heated metal, drawn up by electrical attraction."

He, at that far off period, completely envelopes Mount Calvo with his "oxygen atmosphere," exposes it to the glacial influence," and tells us that "those portions now constituting its rocks were then partially formed, and probably contained much moisture, which, by the operation of 'freezing,' would naturally shiver them into amplitude of pieces!" It, however, so happens, unfortunately for the stability of these very primitive views, that the translucent substance now filling up Mount Calvo's cracks, is not ice; I beg to assure him of this, but real indestructible crystalline matter, whose lateral action, in the process of formation, doubtless, as we see in the crystalline lodes, has rifted the original stony masses, and gradually produced the present brecciated phenomena.

talline lodes, has rifted the original stony masses, and gradually produced the present brecciated phenomena.

Really, I cannot help thinking that it would have appeared infinitely more plausible if, in accounting for the existence of these fractures and their heterogeneous contents, Mr. Coxworthy had shivered Mount Calvo to atoms by the fall of some mighty avalanche of the vaunted glacial period, instantly filled up the cracks with metallic oxides—or more properly speaking, metals—by the attractive influences of his all-pervading oxygon atmosphere, and nicely touched up the work by a few astounding shocks from his great electric battery. For this surely would have been far more in consonance with his own general views, and could indeed, for the most part, be much more consistently employed in accounting for the puzzling phenomena of metallic veins.—Joseph Holdsworth: June 10.

## ON THE FORMATION OF METALLIFEROUS VEINS

ON THE FORMATION OF METALLIFEROUS VEINS.

Sin,—If I acted upon the advice of my practical mining friends, I should let
the letter of "Yerax," of the 4th inst., pass unnoticed; and, unless he can bring
something better than he has hitherte done to bear upon the question of the
formation of metalliferous veins, I shall set him down as one of the defunct—as,
indeed, being already beaten out of the field; and I put it to the mining community whether, in either of his letters which have recently appeared in the
Affining Journal, they have found a single paragraph from which they could
derive the slightest information upon that or any other subject. They seem
to me, indeed, to be a lumble of such nonsense, and so muddled, that I begin to think
them the emanations at some gentleman who indulges after the business of the
day is dispensed with. He commenced his letters up in the subject by stating, undisguisedly, that he took his ground upon facts deduced from Mr. Hopkins's theory
of "Terrestrial Magnetiam." I have since repeatedly pressed him in vain to publish those facts in the columns of your widely-circulated Journal for the edification and instruction of the mining world. But, not he contents himself with
hringing his friend forward as something mightly stupendous. Awhile ago, he
would be in character if he classed himself with the daw in borrowed pluma, e, and
which plumage, by the way, is already sadly damaged—
"Othello's occupation's gone."

The charge that I pretend to superior mining erudition, and that I have pilfered

ge that I protend to superior mining crudition, and that I have plifered ents, falls harmless in the face of my declaration—that I derive much of ation upon which I rely from my mining friends, of great practical know. I firmy mining phraseology is ambiguous, it is that which is in common counties of Cornwall and Devon, to which I for the present confine my us. If he does not understand then, although he presumes that I am a the meaning of the west works, I can have no hesitation in pronounce.

Be supposed to "graw his pen," finding some difficulty in swallowing a bolus of granite, though I do not perceive the elegance or sublimity of the stanzas; and had you so better correspondent than "Verax," I agree with him that there would be small cause for anticipating a prolonged contest relative to the question at issue. "Verax "imputes to see wilful controltion of facts; I shall as briefly as possible show that he cannot justify it. I commenced this discussion by intimating my intention—in the oneset, ellegat—of confining my observations as strictly as possible to the two western counties (Devon and Corrawall), and to which I shall adhere; but with this knowledge, "Verax," not constant with introducing me perforce into Staffordshire, North Waes, and Cumberland, takes me a tour on the continent, and then Stangorts me to South America, placing me at length (decidedly scalast my will) on the ridges of the Andes, where, no doubt, "Verax " has accompanied his friend Heipkins as "constant as his shade." But I aim not so ignorant of the geology and misuralogy of North Wales as he would have it appear. I have more than once been called to inspect and report upon mineral property in that district. At the foot of Cader Idds, and in Carnavonshire, I confuended certain mining speculation. Can "Verax" say as much? They were afterwards worked; and under what streamstances, and with what result, I shall shortly acquaint the public.

The absurdity of the quibble of "Verax" respecting Wheal Vyvyan is too apparent even to require the passing notice I shall give it. He said originally that the ore in that mine was interspersed fixe mic, in the granite. I confued that assertion, which he dares not dispute. He then take another stand, and says "the strings of ore intersected the granite veries, and not the granite veries." Poss he call a course of sich ore from 2 to 3 ft. wide a string. That is truly "subliguous mining phraseology." I repeat that the mutal intersections of copper ore, tin, and granite were innumerable within t

of less have, I believe, been confined to veins, and chiefy arout and such the arrange of lead are he been met with in the metallistroes limeate aware that large names of lead are he been met with in the metallistroes limeates formation of log-land, Waley, me observations.

I have not the pleasure of knowing the present proprietor of the Virtuous Lady, but my description of that last a obtained from my late deceased and intimate friend, Capt. John Williams, of Fymouth, for many years, and until recently, the manager, and nearly sole proprietor. I was never on the mine, but I can vouch for the truth of his statement, which, indeed, varies but little from the representations of "Verax" himself. The geogue was crystalline spar, quartz, and fron, of which i possess some rare specimens, presented to me by Capt. Williams; and "Verax" admits foo that the metalliferous deposits were in close approximation to the slides, and that is what I meant to imply, "that the ore made under the bed of the river seems in no way to bear upon the question."

If "Verax" means that he is use of the mean of real-praciteal knewledge, without intending it offensively. I hesitate not to ask if he has adduced a single instance to substantiate his theory, or to confute my facts—I leave it for the mining public to decide. I reiterate that the presence of native copper in the serpentine of the Lizard is a problem not soon to be solved by the geological theorist—no rational or decisive deduction can be made from it. My denial that it was derived from the surrounding role would be held by the gractical miner to be more consistent than those who come to an opposite conclusion. Vugha, containing ore, are very rarely met with in cross-cuts in this county, unless in close proximity with productive lodes. It is true that we "practicals" take credit for anperior discernment in the natural gualities, and properties of mineral veins over the simple theories, and it is but natural that our position should afford as a pre-eminence in this respect. We judg

#### ON MINING AND NATURE'S LAWS .- No. L.

SIR,-It is evident your correspondent, " Practical Miner," from the co encement of his letters had no intention of arriving at facts, or to carry on an

Sin,—It is evident your correspondent, "Practical Miner," from the commencement of his letters had no intention of arriving at facts, or to carry on an amicable discussion, which is clear from his pointed remarks and distortion of facts. He appears to have apont much time in collecting food for his peaps, but, unfortunately, he has waded a long way and found nothing. Aided as he is with his legion of practical friends, and volumes of theoretical writers, they certainly should have supplied him with arguments to confut one, or a ground-work to support his own theory. He styles himself "practical," but I really eannot bring his writing within its working bounds. He appears to hint that lodes, or strata, have mether law or guide—they are unsided or unsupported further than by kindly gossans. The majority of his letters are so vagus, and so figured out with borrowed terms from theoretical works, as to be incomprehensible to the mining public, and unworthy a reply. I fully expected be was going to enter into a discussion as to what was and what was not Nature's laws, with a replace of the condition of the condition and the condition of the con

this direct lineal line of lodes has produced nothing there? or it may turn out that he is a very tender-hearted creature, and would not take all the good things to finaself, but left them for the rising generation? He having arought up the granite question, I will next endeavour to meet him on that point, and ask it there is an experienced practical miner in Cornwall that is not aware that a line of granite extends from the Land's-End to the east part of Dartmoor, accompanied by a number of lodes running in nearly the same direction? This line of granite shows its rugged head in some eight or ten places; the strata between is chiefly clay-slate or granite wacke (as Practical choose to have it), in places for mise in length; in the lattrock the lodes are barren, both of tin and copper, but near all the granite formation where the lines of lodes pass tin and copper are found.

I never attempted to lay it down as a law that copper was not found above two miles from granite; but gave that distance to raise the question. What is his answer? He names three or four mines west of Redruth is the direction of the lodes between two granite formations as being above two miles. When we see these protrading heads of granite, showing their lineal line in that direction, there is no proof produced that either of them are one quarter of a mile from granite; but we have strong presumptive evidence from the declivity of the granite, as seen going in their directions, that they are not above that distance.

Let us next look at the mines in un north and south direction of this line of granite, and J shall be open to conviction if well authenticated proofs are produced that either tin or copper is found in these directions above two miles from the known granite base, sufficient to renumerate the adventure. It has been attempted to be shown that St. George, wheal Leisure, Wheal Towan, Wheal Charlotte, and all the tim mines in Perran and St. Agness are over the bounds. My friend, being an early bird, attempted to crow, and take the s

ducties apacts in the east and west direction, that is produce neither tin nor copper, to be bettern and uncongenial rook, that is for the and copper there is a something wanting that prevents chessical action from taking place, for want of which this lade or strate does not become subsensible, so as as produce either. On these crounds we may reasonably reached that there is a sweathing in or about granite formations. By-the-by-e, I have omitted to notice Wheal Jublice, near Padstow. Well, I can only say that I have known the mine or 30 years past: I purchased the engine there, I think, is the year 1923. I never saw or heard of either antimony or copper enough being returned from there to pay a quarter of the outsy. Legosic and Trewsine returned some copper, but it amme very far short of meeting the expenses. A faw tom of copper mines in the lime quarries of Bridestow, or in the iron lodes on Exmoor, as there. I boldly contrast that, without a precedent is established, renunerating copper mines have been found far beyond those bounds. It is gentlemen's own faults if they allow themselves to be drawn in and guiled of their cash by every one that chooses to baptice himself "practical." How often do they reterate to me the saying of the bold practicals, that no copper would be found east of Truro Bridge? What stronger proof do we want to convince us that the bind wars then leading the bind, when they had the continuation of the granite, the line of lodes, and an abundance of the internal of the practical, and the submodiffered which is predented with his precedent; a week is no at the specific or the productive tin mines. Wieeliacombe, June 9. I next follow him on to the productive tin mines. Wieeliacombe, June 9. I next follow him on to the productive tin mines.

[A pressure on our space prevents us giving the entire of Mr. Ennor's paper in its week's Journal—the conclusion shall appear in our next.]

Sin,—To set friend "Argus" right, I request him to refer to his letter of 10th of May, where he quotes me as having a contest on the two elements with a Mr. Richardson, not Rowlandson, which caused me to make the remark, when, by some error in printing, Rowlandson was substituted for Richardson. I really thought "Argus" so fatigued, rummaging volumes to flud matter for Practical, as to have caused a scizure, and was bedridden. I am, however, happy to see him shie to come out again. One thing at a time, "Argus." I have no idea, though, what he means by requesting me to tell him what has become of the lead.—N. Ennon.

#### THE POLES OF THE GALVANIC BATTERY—TERRESTRIAL AND ATMOSPHERIC MAGNETISM.

ATMOSPHERIC MAGNETISM.

Sir,—From the period of the first construction and use of the galvanic battery to the present time, no theory has ever been proposed that throws the least light on the principles which govern its action; and whilst I think I shall have no difficulty in transposing the order that has hitherto been given to its "poles," were I to attempt to trace the cause of its operation, my endeavous would prove altogether unavailing. There are, however, in Nature certain well-defined principles, the application of which cannot fail in throwing much light upon the subject, intricate and perplexing as it is. I shall, therefore, in order to simplify the question, first give an outline of the views of the old school, and then test them on the principles that have lately been brought to light.

voices would prove altogether marvailing. There are, however, in Nature or tain well-defined principles, the application of which cannot fall in throwing much light upon the subject, intricate and perplexing as it is. I shall, therefore, in order to aimplify the question, first give an outline of the view of the old school, and then test them on the principles that have lately been brought to light.

On reference to the chemical works of the day—for authorities are alow in confessing their error—it will be seen that oxygen, chlorine, &c., are cleased as electro-negatives; whilst hydrogen, and other combustible bodies, are designed to the day of the confessing their error—it will be seen that oxygen, chlorine, &c., are cleased as electro-negatives; whilst hydrogen, and other combustible bodies, are designed to the competent of the principle while the bedies in siding or the control of the poles of the battery, or that oxygen, &c., are clearly as the bedies in siding of the competency of the battery, or that oxygen, &c., are clearly as the control of the poles of the battery, or the oxygen, &c., are the proposed of the battery to the other, or whether the action results from the operation of two bodies in different high electrical conditions.

In the pole of the battery to the other, or whether the action results from the operation of two bodies in different high electrical conditions.

In the pole of the pole of the pole of the pole of the other yet of the control of 1869; I shall, therefore, meety give a general outline of those that insenditively bear upon the present question, assuming it will be allowed that general life the pole of the pole o

bury-place, Lambeth-road, June 9.

## ON MINERAL VEINS.

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ON MINERAL VEINS.

Siz.—Being a native of Cornwall, and one who admires controversy, when the subject tends to enlighten the mind, or afford useful and acientific information, I have waited from week to week with anxious expectation that assertific worthy of notice would appear in the discussion but ween Mr. Eanor, "Argus," and "Practical Miner," on the above subject, which has so long figured in your valuable Journal. The argument now assumes a form so little to the purpose, that I fear it is taken up by partice as little acquainted with the laws of nature as myself. I can judge between an argument carried on legitimately or from pique. If "Argus" and his colleague are capable of discussing the subject with Mr. Ennor, why do so in ambush? Meet him like men, on equal terms "Though they are two to one, he is good metal, and will not fitted, I know from experience; and am inclined to think that "Argus" and his friend are as well informed, or they would not be so scrupulous in discovering the fortress from which they wait an opportunity of fitting at their opponent, should be chance to lay himself open. If they have the spirit of men, I say,-emms out of cover, and not assume a fictitious name. "Argus" some time since dwalt strongly on the merits of a rame. He says, "What's in a same?" He appears well versed in the impropriety of now disclosing his own. At present neither name or argument affords the public an opportunity of judging if they are men of practice or not—I cannot say the same of Captain Ennor, I know him to be a practice or not—I cannot say the same of Captain Ennor, I know him to be a practice or not—I cannot say the same of Captain Ennor, I know him to be a practice or not—I cannot say the same of Captain Ennor, I know him to be a practice or not—I cannot say the same of Captain Ennor, I know him to be a practice or not—I cannot say the same of Captain Ennor, I know him to be a practice or not—I cannot say the same of Captain Ennor, I know him to be a practice or not—I cannot say the same of Captain

—your writings evidently emanate from the same source, or in connection; and do not make quotations from the writings of another, such as there might be some difficulty in substantisting. Can you not offer a problem for solution which has fallen under your own practical observation? such would afford parties interested an opportunity of judging if you were brought up underground or in the counting-house. All persons acquainted with Capt. Ennor must be aware from his extensive mining practice, straighforward and systematic manner of carrying out all undertakings committed to his charge, that "Argus" and his friend would have but little chance of victory in contesting with him in an argument such as this, provided they lay themselves fairly open. I do not believe there is a man in Cornwall who excels Capt. Ennor as a practical and experienced miner. The frank and open manner of his writings in your valuable Journal I believe to be admired even by "Argus" himself. On the interior structure or formation of our globe, and the laws of Nature acting thereon, I am not sufficiently acquainted to treat; but one thing is certain—Mr. Ennor possesses his share of practical knowledge as to the nature of lodes and the adjacent rock, or he has been most fortunate in everything of the kind he has undertaken, success having crowned the whole.

A Connishman. dertaken, success h. Liverpool, June 11.

WHEAL TREMAR AND OKEL TOR AND THE MINING EXCHANGE.

WHEAL TREMAR AND OKEL TOR AND THE MINING EXCHANGE. Str.—As a member of the Mining Exchange, I address to you with much reluctance a complaint on the subject of the above mines, in connection with the "rules" (so called) of that institution, which, when started, had for its first object the revisal, "or weeding," as it has been called, the Mining Journal Share List. I accordingly made application to the committee to admit the Wheal Tremar and Okel Tor into the revised list, and was met by a reference to a certain rule which required that any mines, the merits of which were either unknown or doubtful, must undergo a certain scrutiny, such as furnishing lists of shareholders, costs incurred, &c., and an inspection by an agent to be chosen by the company, and paid by the applicant. To the former of these conditions I demurred, as invidious and inquisitorial; but to the latter I consented, and lodged with the secretary a letter agreeing to pay out of my own pocket two guineas for the inspection of each mine by an agent of the committee's own choice and appointment. I am now speaking of past times—say, two months ago, in which interval nothing has been done in the matter, and the two mines remain as "weeds," or offal, in the black list in your Journal at the present time.

Now, the committee of the Mining Exchange either know commits and the present time.

the two mines remain as "weeds," or offal, in the black list in your Journal at the present time.

Now, the committee of the Mining Exchange either know something of these mines or they know nothing. It may be something good or bad, or it may be nothing bad, and yet the mines are, if not condemned, at least neglected, but whether by the committee or the secretary it is not for me to say, the question not being a personal one. I now inform you and your readers (such as interest themselves in the matter) that the Wheal Tremar is a copper mine, in the parish of St. Cleer, near Liskeard, and had lis origin in the most influential parties in the Caradon district (Messras Kitto, Clymo, West, and others), who out of 1024 took amongst them 424 shares, with which list the mine was started, and the remaining 600 shares quickly taken, chiefly through my agency, which gives me, at any rate, an indirect interest in the question. It has gone to work, made two calls, and latterly a fine lode has been cut in Trethevy Mine, east of Tremar, but in the run of the same lode, which gives hopes that, independently of its own nerits, it will prove a fair speculation, and not a "weed" to be trampled upon and destroyed.

The Okel Tor is rather a more serious affair, being offered to the public in 2048 shares, but yet at 10s, only deposit in the first instance. Parties of high respectability at Plymouth and Exeter have a large interest, and to my friends about 200 shares have been sold. A report by Mr. E. Hopkins is more than favourable, and the utmost encouragement to work the ground in given by a report of Mr. S. Secombe, of the Phonix Mines, who being a "pick and gad man" and rather respectable in position, will not, perhaps, be objected to as an authority. But not content with these reports, when the means of strengthening or refuting them was at hand, I obtained another report from Captain James Opie, the present agent of Lamheroce Wheal Maria, which more than confirmed the previous favourable accounts, and concludes by stating tha

James Opie, the present agent of Lamheroce Wheal Maria, which more than confirmed the previous favourable accounts, and concludes by stating that "he would recommend the speculation to his greatest friends on fair terms." Capt. Opie may be unknown to the committee, but I beg to add that he is an agent in whose judgment, experience, and honesty I place the utmost reliance. Should it be urged that the list of shareholders of Okel Tor is yet incomplete, I would beg to answer that it is likely to be so whilst the mine remains a proscribed item in the Mining Journal, for it is not to be supposed that either the favourite list or the weeds of the committee are disregarded by the public; on the contrary, a Mining Exchange was required for the increased attractions of mining shares, and such an institution having got at least "a name," it is at once an instrument of good or evil. I now beg, Mr. Editor, to request that you will take these "Wheals" out of your list, and I trust others interested in having their mines placed in a fair position before the public will be stimulated to follow this example. Such a course will be a test of their claims to the consideration and favour of the mining public, since it will not be difficult to bring them forward in some other way, and, perhaps, without the assistance of the Mining Exchange.

Kingstret. Cheenside. June 13. them forward in some Mining Exchange.

King-street, Cheapside, June 13. JAMES CROFTS, Mining Broker.

NORTH WHEAL BULLER (GREAT SOUTH TOLGUS).

NORTH WHEAL BULLER (GREAT SOUTH TOLGUS).

Sir,—My letter of the 17th April was a statement of facts—"nothing extenuate, or ought set down in malice," as the "Adventurer" would foully imply. Finding their shares quoted at 14t. each in your Journal, and offering at about half that in the market (where, of course, they could not expect to find buyers at the modest premium of 200 per cent., and so little to show for it), I wrote the few lines in question, for "the sole purpose of recommending others to do as I would myself—go upon the spot, or write some disinterested and upright mining agent to inspect these El Darados, before parting with their cash. If all is fair, and as represented, this cannot be objected to."

I have waited quietly two months to learn whether the long-promised 50 tons from the "good lodes" were forthcoming or not; and the result of 15 months effectual scraping away of every little arch, support, or string left by the old party, and the subsequent explorations and "diggins," yields the enormous sampling of 40 tons of low quality ore, after an outlay of 6000t, and the concern trumpetted forth to the public at 16,800t.—more than 12 times the real value of the stock in trade and machinery of every description.

The scheme has got somehow among the select in the Mining Exchange List, but not one scrip or share has "travelled through that region of bliss." I may be able in a postscript to say what the 40 tons are worth, but certainly not enough to pay interest on the outlay.

My object is and was to caution parties generally (not in this scheme alone), on all occasions, "to look before they leap "—to examine before they buy; they will find it too late after they have done so. But if they were to make a general rule to ask the advice of a practical miner (the resident banker or postmaster, in many instances, would procure one on reference to them), they would find whether the under-take in had "a local habitation and a name," and whether it was trash, trash, trash, to be avoided by those who wish f

London, June 13.

P.S.—The 40 tons will not sell for more than 3l. 1s. per ton—say, 122l.

HINTS TO SHAREHOLDERS-No. V .- THE MINE SHARE-LIST.

HINTS TO SHAREHOLDERS—No. V.—THE MINE SHARE-LIST.

Six,—The premium or discount prices of the present mine share-list, should not be depended upon as a test, or even guide of the relative value of shares in new or maiden mines, as they are too often the representatives of jobbery, caprice, or spleen; and are but rarely even proximate indicators of the merits or bond fide character of a new mine.

The establishment of a Mine Exchange has already checked the nefarious intentions of the unprincipled, and if properly regulated will be of great public service. An indolent public is too prone to follow such broad assumptions and declarations as ignorance and impudent chicanery may dare to dovetail into the prospectuses of new and totally unproved mines, which are backed with the sugary gossan of some Sparyoite mine captain, are foisted by new or inexperienced mine sharedealers into an unhealthy and feverish market price. After a little while the temporary excitement passes away, and then it is perceived rienced mine sharedealers into an unhealthy and feverish market price. After a little while the temporary excitement passes away, and then it is perceived that the mines, being wholly unproved, require much more than the whole of the contemplated capital before they can be brought even into that preliminary stage of working which will enable the reflective and cautious examiner to hazard a declaration of their ultimate capability and intrinsic worth, upon the application of the proper working capital. Under these circumstances, many of those who purchased their shares at the recommendation of the new mine sharedealers—the very large majority of whom are just about as fit to

many of those who purchased their shares at the recommendation of the new mine sharedealers—the very large majority of whom are just about as fit to maneouvre a ship of war as they are to discretely guide the capitalist in his mine investments—are sorely disappointed. These dispirit the other share-holders, destroy their confidence in the ultimate capabilities of the mine, and cause its suspension, or, perhaps, premature abandonment, with a total loss of the purchase and working capital.

It is but few of our mines, such as Wheal Reeth, the Caradons, Trelawny, Trehane, Mary Ann, West Buller, and some others that have been profitable in their maiden workings, and these were not the costly and glittering Wheal Tonkins—surprising all experience with the "five or six feet lode at only four fathous deep, containing black, grey, and rich yellow copper throughout."—"One foot wide is very rich." Thus says John Spargo. Fudge. "Five or six feet lode, with black, grey, and rich yellow copper throughout." Fudge, I say. Will this "throughout give half the contents of the five or six feet? a third, a sixth, a tenth, or a twentieth of rich copper ore? Another report talks of "large rocks of rich copper ore 15 to 18 cwts." Will these rocks of rich coper ore, of 18 cwts., produce 12, 9, or even 6 cwts. of rich copper ore? These reports are understood by the initiated, but not by those who are expected to take shares, and be misled. It is by these disingenuous reports that too many of the mine captains gull the public, dishearten the capitalist, shake confidence, and throw mistrust and disgrace upon mining and miners.

For upwards of 30 years I have been in the habit of seeing copper, tin, and lead lodes in various counties, as well as under various circumstances, and have

more than a strong suspicion that the reports of Mesers. Spargo, Seymour, and Rippon should be very considerably toned down. It is possible that proof may bring Wheal Tonkin into great future market value, but it is not now in a state to justify such flourishing reports.

The prospectus of one new adventure says, "it is anticipated that if silver could be extracted from this marquisite some years ago, so as to give a profit to the adventurers, it will now be rendered a source of considerable gain." Doubtless, if it could. For this if they modestly sak 4000l, while neither the if nor the probable chance is worth a shilling. As to Mr. Trenberth's "hundreds of tons of copper ore being raised and sold from both the new and old workings," who raised them, and where and how were they sold?

WATCHMAN.

#### TINCROFT MINING COMPANY.

TINCROFT MINING COMPANY.

Sia,—I am one of those shareholders who neither make myself conspicuous at public meetings, by rising up half-a-dozen times to grumble at every little trifle that carries with it an objectionable tendency or point, nor do I complain by long letters in your Journal; but when I hear very general murmuring of doors, and cannot get an explanation within, I do really think it is time to stir about, and try to get at the facts. At our last meeting of this concern, held on the 30th April, there was great complaint made against the management in Cornwall, for sending up such brilliant reports to town as to induce the directors to declare a dividend when it appears they ought not to have done so. They were much blamed for it, without having first the required amount available in their bands for such a purpose, for in the course of payment it appears they actually had to borrow money. This shows there was "something rotten in the state of Denmark." As we were found to be in debt, and losing many thousands a year, in place of gaining, by reason of some of the shafts being diagonal instead of perpendicular, and funds were necessary for the liquidation of all this, a committee of five shareholders was appointed, with full powers to inquire into the past conduct of the management generally, and report as to the present actual state of the concern, "above and below." This is to inquire of you whether the said committee have, for the last 40 days, been in the wilderness, for we have no notice that they have signified their report is ready? No meeting has as yet been convened; and yet out of doors, I again repeat, the "noisy hum of voices" proclaim this, that, and t'other as the ultimatum of the committee's labours, which throw great reflections on the purser, probably groundless. One thing is certain, it has had a withering influence over the price of shares in the market; for although quoted in the Exchange 5 to 5\frac{1}{2}, they were done last week at 4\frac{1}{2}.

I understand the underground dep

#### MINING DIVIDENDS AND CALLS.

MINING DIVIDENDS AND CALLS.

Sin,—I see "Argus" has been at work in your Journal of last week, offering his opinion rather prematurely (or at all events before it was asked), as to the probability of success in 41 mines now making calls; and, although I am not interested in either of them, I venture to predict that in many his opinion will prove to be very erroneous; and I think it amounts almost to an absurdity for any man to write in the off-handed way that "Argus" has thought fit to do about 41 mines, and is calculated to do more harm than good to mining generally. However, as I suppose what "Argus" would or would not recommend will have but little weight with the shareholders of the above mines, I leave the matter in the hands of those holding an interest in them to answer.

London, June 11.

FAIR PLAY. London, June 11.

THE NATIONAL BRAZILIAN MINING ASSOCIATION.

THE NATIONAL BRAZILIAN MINING ASSOCIATION.

Sir,—In perusing your valuable Journal of the 12th Oct., 1850, I observed annexed to a report on the Cuiaba Mine the following statement:—"For the last 10 years, the different mining captains at Cuiaba made every effort to find the lode at Hitchens's level, or at that depth. A new captain (Samuel Bawden) was sent from Cornwall last spring, who found the lode after 12 daya' search." From being fully acquainted with the working of the Cuiaba Mine for a longer period than that mentioned, I do not hesitate to say that the statement is entirely devoid of truth. Hitchens's level was driven 18 years ago 10 fms. on the lode, at which point a course of clay-slate was intersected, which crossed the lode at nearly right angles, and "heaved" it several fathoms to the south. The level was suspended at that point, and the entire operations of the mine was carried on on the eastern side of the course of clay-slate from that time until the year 1848, at which period all the lode, east of the clay-slate from the surface, to as deep as the deepest level in the mine, became exhausted. The lode is also worked away in the eastern part of the mine 5 fms, below the deepest level. The water was drained by hand-pumps; but ultimately it became too unproductive to pay the expense, and was, consequently, abandoned. There was then no alternative but to seek for a new mine on the western side of the course of clay-slate A level was, therefore, commenced from Reid's shaft 10 fms, below the surface, was driven through the clay-slate, and the lode intersected on the western side of it; here the level was driven some fms. on the lode, and a very extensive stopes, called Le Page's, was opened from the bottom of this level; but the lode was also found to be very poor in this level. A rise was then put up from the last-named level to the stopes above, through the clay-slate; and the lode was intersected in this level also, but now found to be very poor, producing only 27 grs. of gold per ton. With the ex

an extract of their letter in answer:—

26, Throgmorton street, London, July 31, 1849.

Drar Sir,—We fully confirm our letter to you of the 4th instant, and have since received your reports from Cuidaba to the 27th May. The opening of Le Page's stopes, to the westif the killas, and the discovery of the lode at Harthey's and Hitchens's levels—followed, as it no doubt will be, by finding it in the shallow adit—appears to us matters of the greatest importance, as regards the future working of the Cuidaba Mine; and although the floors you have commenced upon are very poor, still you will find many others, probably, of a better quality; and with the facilities you will possess of breaking 2000 or 3000 tons per month, we look forward with the hope of the Cuidaba Mine realising a produce far exceeding its moderate expenses, &c.

[Signed], Edward Oksekford, William Hamilton.

Surely, such statements should not have been published through the Mining Journal—the directors knowing that their letters of correspondence must be in the possession of their agents. The managers of companies too often adopt the system of abusing their old servants, when their undertakings do not progress so satisfactorily as they had anticipated.

\*\*A LOOKER-ON.\*\*

South America, March 26.\*\*

INDUSTRIAL RESOURCES OF IRELAND-GALWAY.

INDUSTRIAL RESOURCES OF IRELAND—GALWAY.

Sir,—It is needless here to dwell on its preponderating geographical position, its immense yet almost idle water-power, its geological riches, &c. I have been kindly favoured with a variety of mineral ores from different places about Galway—Lemonfield, Brownville, Arran Isles, Salt Hill—also from the opposite shores in the county Clare, which I believe to be a continuation of the same metallic strata, principally composed of sulphurets of lead, copper, iron, and silver. I investigated their chemical constitution and application to the arts and manufactures. It is really surprising that Galway, so bountifully supplied by Nature, and with all the elements necessary to constitute it one of the first manufacturing depôts in the British empire, has so long remained in the shade unnoticed. The richness of its lead ores equals, indeed surpasses, many of those so extensively worked in Durham, Cumberland, and Yorkshire. The sample of lead ore which I examined was galena, technically called sulphuret of lead; it contains in 100 parts, lead 86-6 and sulphur 18-4, with about 12 ozs, of pure silver per ton of ore. The iron is generally in the pyritic state, or, as it is called, bi-salphuret of iron, and is admirably suited for the manufacture of oil of vitriol, being a compound of 28 parts of iron and 32 of sulphur: and in a 100 parts, iron 46-7 and sulphur 53-3. The copper ore I found to be as a sulphuret present in the iron ore, but not in large quantities, however, that it is derivable from it is evident. The reduction of the above ores at home would error a source of immense wealth and profit to those who would embark therein, evident. a 100 parts, iron 46.7 and suipin o 3.8. The copper ore 1 found to be as an inphuret present in the iron ore, but not in large quantities; however, that it is
derivable from it is evident. The reduction of the above ores at home would
prove a source of immense wealth and profit to those who would embark therein,
besides the unlimited amount of remunerative employment it would give to our
starving people, both labourers and artisans. The lead ore, as worked on the
seatate of George F. O'Flahertte, Eaq., I have been informed, is sent out of this
country at 11t, per ton, to be reduced, refined, and returned back to the market
at from 20t. to 22t. per ton, or as litharge, 24t.; or converted to many othe
forms more lucrative to the manufacturer, besides the amount of employmenr
it gives, which would lessen our poor rates, and ultimately leave almost no sucht
rate in requisition. The sulphur contained in the above sulphurited metals
would be most advantageously applied to the formation of sulphuric acid or oil
of vitriol, a substance so extensively used, and so essential both to the manufacturing and pharmaceutical chemist; of all the acids, the sulphuric is the most
extensively used in the arts, and is, in fact, the primary agent for obtaining
almost all the other acids by disengaging them from saline or other combinations; in this way the nitric, muriatic, or hydrochloric, tartaric, acetic, and
many other acids are procured; it is employed in the direct formation of alum,
of the sulphates of copper, zinc, potass, and soda. In that of sulphuric ether,
and of sugar, by the saccharification of starch, &c., it serves also for opening
the pores of skins in tanning, for determining the nature of several salte by the
acid characters that are disengaged, &c. It is largely used in the manufacture
of bleaching powder, or chloride of lime and soda ash, ingredients so extensively used in the home and foreign market. Soda ash is used extensively in the manufacture of soap, glass, paper, &c., and largely exported to America; in fact, it is one of the staple trades of England in the American market, and which could be most profitably made in Galway, which will ere long become the pivot on which the trade and commerce of the eastern and western world will turn.

JAMES M'ARDLE,

Gahray, June 6.

Late Chemist of the Apothecaries' Hall of Ireland Chemical Works.

WEST WHEAL FRIENDSHIP.

WEST WHEAL FRIENDSHIP.

Sie,—As West Wheal Friendship stands second in the list of 13 mines, out of 41, in which calls were noticed in the Journal of 31st May, if it is intended by "Argus," of Truro, to be suspiciously regarded, the committee beg to say that the mine is managed by a local unpeld committee, and the only paid agent being the captain, we court, as we ever have done, the fullest investigation into our prospects, proceedings, and management, and will feel great pleasure in showing the mine to any agent or speculator at all times, and even to exhibit it in all its details to the 100 eyes of our friend "Argus" himself.

We can hardly collect from the letter of "Argus" what he signs at or condemns. The expenditure of 5000t, and persoverance in our operations for five years, we think ought to exempt us at least from all charges or suspicions of anything but fair and straightforward dealing in legitimate mining. The coamittee will be obliged to the Editor by his insertion of the foregoing in this week's Journal.—J. Newton, Purser: Truro, June 12.

BIRAM'S PATENT ANEMOMETER, FOR MEASURING
THE CURRENT OF AIR IN MINES, &c.

This INSTRUMENT is CONSTRUCTED so that
the ACTION of a CURRENT of AIR on EVERY
PART of the VANES may tend to PRODUCE a
REVOLUTION of the WHEEL in the same time—
the number of feet lineal which have passed through
the wheel being shown by indices which revolve on
the dial-plate underneath the handle.

Further pacticulars, with references, may be had
on application to the patentee.

BIRAM'S MINER'S LAMP, COMBINING LIGHT, SAFETY, AND

COMBINING LIGHT, SAFETY, AND ECONOMY.

The PATENTEE respectfully solicits the attention and patronage of COAL PROPRIETORS to the above LAMP—the LIGHT from which will be found FOUR-FOLD that of the Davy Lamp—the SAFETY SUPERIOR, and the COST IN OIL not ONE-HALF the expense of candles, even when burning free from draft; whilst, from the light being shielded from the wind, a current of air, inadmissable where naked candles are used, may be passed through the galleries of a mine without Wentworth, near Rotherham.

BEN. BIRAM

I MPROVED LIFTING IMPROVED RATCHET HALET'S PATENT JACKS, MANUFACTURED BY

W. AND J. GALLOWAY, PATENT RIVET WORKS,

MANCHESTER.

The attention of parties who employ

Mifting Jacks,

is respectfully requested to the superiority of those annexed, over those hitherto in use.

IMPORTANT SAVING IN MINING OPERATIONS. GUTTA PERCHA HOGAR PIPES.

The GUTTA PERCHA COMPANY have been favoured with the following important cetter from Emergene Rogens, Esq., C.E., F.G.S., Abercarn Fach, near Newport, Monmoutinshire:—

The GUTTA PERCHA COMPANY have been avoired with the rollwaing important. Letter from Errereze Rocease, Esq., C.E., F.G.S., Abeream Fach, near Nowportant, Mounouthishire:—

March 21.—In reply to your inquiry as to the use of gutta percha as a material for the Rogar pipe used for taking up water in sinking shafts for mines. I have pleasure in stating that my application of it for this purpose is perfectly successful.

The ordinary slide pipe is entirely supersoded by the gutta percha Hogar pipe, and it will be evident to every person experienced in mining, that the flexibility and lightness of the latter admits of sumping in any part of the pit, without the great amount of isbour attendant on that operation with iron pipes.

The freedom from liability to accidents in biasting, and the great facility with which repairs can be effected in case of damage, cannot fail to recommend your material to the notice of every person engaged in mining operations.

The gutta percha Hogar pipe, which we have now in work at the Abercara Collieries, is about 20 feet in length, and after very severe trials in sinking through hard rocks, where the expensive slide and stock would be always liable to breakage, the gutta percha is little worse for wear. I am also glad to state that the 400 feet of speaking tube for communicating between the top and bottom of the shaft answers admirably, and is a great economist of time.

GUTTA PERCHA PUMP BUCKETS.

GUTTA PERCHA PUMP BUUKEIS.

Camborne, Jan. 27.—Three gutta percha 12-inch plt bxxxs, or pump buckets, drawing water 7½-feet stroke, have been used and worn out in this mine, and I beg to inform you that they have lasted on an average six weeks each, giving double the average wear of leather boxes, or buckets. This alone is important in saving time and cost of changing boxes, especially in long lifts, and gutta percha requiring no nails for gearing, the working pieces will doubtless last much longer. On the whole, we much prefer gutta percha to leather for boxes.

SYPHONS FOR MINES,

SYPHONS FOR MINES,

FROM MR. A. CROAFIELD, TY MAUR COLLIERY, NEAR PONTY-FRIDD.

The gutta percha pipe sent me for the purpose of employing it as a syphon for draw water from a damp heading at these works, answers admirably; and, although the j as os small, it is surprising the quantity of water passing through it. I consider t gutta percha piping may be applied in mines and collieries to very valuable purpos and is especially adapted to be used on the syphon principle, where local curcumstan will admit of such application.

MINERS' CAPS. Cornish Miner's Cap



The GUTTA PERCHA CAPS are not only Waterproof, but afford peculiar protection to the wearer from the Falling of Loose Stones,

ERY VARIETY OF GUTTA PERCHA ARTICLES SUITABLE FOR MINES—Hogar Pipes, Pump Buckets, Clacks, Speaking Tubes, Engine Packings, Syphon Minery Caps, Waterproof Soles, &c.,

MANUFACTURED BY THE GUTTA PERCHA COMPANY, PATENTEES,
No. 18, WHARE-ROAD, CITY-ROAD, LONDON.

\*\* Specimens may be seen on application to the Company's dealers.

&c. &c. &c.

BY HER MAJESTY'S ROYAL LETTERS PATENT. THE PROCESS OF ICE BEING MADE IN ONE MINUTE without the aid of Ice, has elicited from Her Maje ty, at the Gra most gracious approval and unbounded astonishment, by

MASTERS & CO.'S PATENT FREEZING MACHINES, which are now brought to the highest state of perfection; as also are the various MA-CHINES enumerated below:—

CHINES enumerated below:

MASTERS'S PATENT FREEZING MACHINE, for making Dessert Ice and Rock Ice from Spring Water, and for Cooling Wine, &c., at a trifling cost.

BUTTER COOLER and FREEZER. ICE PERCOLATING FUNNEL.

ENAMELLED WINE REFRIGERATOR, for Icing Champagne, &c.

MASTERS'S PATENT SHERRY COBBLER FREEZING and COOLING JUG, for Producing pure Ice from Spring Water in five munutes, at the cost of 2d., in the hottest climate.—Price 30s. and upwards.

GOOLING DECANTER, or CLALET JUG.—COOLING and FREEZING FILTERER.

COOLING CUP, for Surgical purposes, &c. &c. &c.

COOLING DECANTER, or CLALET JUG.—COOLING and FREEZING FILTERES.
COOLING CUP, for Surgical purposes, &c. &c. &c.
The PUBLIC is respectfully INVITED to SEE the PROCESS of MAKING ICE, by
the above machines, without the aid of Ico—the same process as calibited by Mr. Masters
to Her Majesty, at his Refreshment Rooms, at the Crystal Palaco, where 100 quarts of
Desert Ice, and large cylinders of Rock Ice are made daily—at Mesars. MASTERS & CO.'S
principal DEPOT, 500, REGENT STREET, adjoining the Polytechnic Institution, London.
MASTERS & CO.'S PATENT SODA WATER and ÆRATING APPARATUS, for
charging Water, Wine, Aic, and other Liquids, with pure Carbonic Acid Gas. By this
apparatus the purset Soda Water may be obtained at the cost of less than one tarthing
per glass; and so delicate is the operation, that it may be used in the dining-room. By
the addition of the Jargonalle Pear Syrup, manufactured by Mesars, Masters & Co., the
most delicious effervescing beverage is produced. Price 30s., and upwards.

N.B.—Syrups from all Fruits, for flavouring Sods Water, making Lemonade, Ices, &c.
Also, MASTERS & CO.'S PATENT ROTARY KNIFE-CLEANING MACHINE.

Also, MASTERS & CO.'S PATENT ROTARY KNIFE-CLEANING MACHINE.

MASTERS & CO.', PATENTEES, No. 309, REGENT-STREET,

Adjoining the Polytechnic institution, London.

In Marine Engine Construction and Classification. By CHARLES ATHERTON. Chief Engineer of H. M. Dockyard, Devenport. London: John Weale, High Holborn.

High Helborn.

In this little work the author has endeavoured to call the attention of the steam shipping interest to the necessity of a proper classification of steam-engines to the efficiency of steam feet service, instead of depending for excollence of construction and performance on rival manufacturers. He has endeavoured to ascertain from the various statistical returns which have been published, what peculiarities of engines have conduced to the most effective results, and has devised an arrangament embracing these peculiarities. The object of the writer appears to be to show the evils attendant on steam-canner on board a fleet of steam-vessels being dissimilar, and perhaps no two of them on exactly the same principle; the advantages of which, he thinks, have not yet been superseded by any other form of engine. which are now open for inspection in the Great Exhibition. Aftr. Atherton shows that this proposes demartuation is equally applicable to the paddle-wheel and the screen sind proposes a definite system to libraries the practicability of his views, and point-out specifically some of the practical benefits which would attend any good system of classified arrangement. He states that not less than 1000 different modes of commercion of engines have been adopted in the marine service of Britain, of which is of in the Royal Navy sinder, and that every engine hereafter to be made will, unless acting it under some system of classification, follow the same aurogulated course; while the fact is remarkable that up to the present time no one plan of engine of modern data has been found to possess any acknowledged degree of serving superiority over those made 20 years since. The author takes an impartial review of the merits of paddle-wheels and serves, tubular and flue boilers, and the best means of applying the screw, whether by direct action or by multiplying genr, and shows that his object is less to hold up any one particular plant, than that one general plan should come into-operation in each separate compa

The Railways of the United Kingdom Statistically Considered. Supplemental Part. By HARRY SCRIVENOR, late secretary to the Liverpool Stock Exchange, and author of "A History of the Iron Trade." London: Smith, Elder, and Co., Cornhill.

Elder, and Co., Cornhill.

In the Mining Journal of June 9th, 1849, we noticed, in a very favourable manner, Mr. Serivenor's excellent work on the Raileags of the United Kingdom up to the period of publication. We have now before us a supplemental volume, conveying full and further intelligence of their progress to the present year—all subsequent agreements, creation of shares, calls on shares, dividends, the position of capital and revenue accounts, a statement of the guarantee and preference shares, with the substance of the Railway Commissioners' Reports from 1849 and 1850. This supplemental volume continues the information on all railway matters with the same perspicuity and completeness which marked the previous volume; and, to all interested in the progress of the railway system, the entire work will prove of the utmost utility for reference, presenting, as it dees, a complete epitome of the advance of every line, and the management by every company from its commencement to the termination of the year 1850.

CHURCH OF ENGLAND FIRE AND LIFE ASSURANCE.

CHURCH OF ENGLAND FIRE AND LIFE ASSURANCE.

The annual meeting of the proprietors of this company was held yesterday, at their establishment in Lothbury,
Major JAMES OLIPHANT (East India director) in the chair.

Mr. EMMENS, the manager, read a highly gratifying report of the transactions of the company during the past year, from which it appeared that the new business of 1850 in the life department had, notwithstanding the formation of so many new offices, exceeded by a large amount the assurances opened in previous years, whilst the claims paid were nearly met by the new premiums of the year, and were considerably exceeded by the receipts from lapsed policies. In the fire department the same favourable result appeared, the losses being under 30 per cent. of the premiums. The dividend of 6 per cent. per annum would be payable on and after the 14th July next.

The report was adopted unanimously.

The retiring directors, Major Oliphant, the Rev. H. T. Tucker, W. Ambrose Shaw, Esq., and E. Heathcote Smith, Esq., were re-elected unanimously.

Messrs. Cabill and Scott were elected auditors.

The usual complimentary vote of thanks was passed to the chairman and directors, and to Mr. Emmens, the manager, when the meeting separated.

The usual complimentary vote of thanks was passed to the chairman and directors, and to Mr. Emmens, the manager, when the meeting separated.

The Devon Havtor Grantte Quarries.—We notice by a prospectus just issued that these quarries, producing without exception the most superior stone, both in tenacity, hardness, and durability in the kingdom, are about to be again worked. The cause of these not having been recently worked is well known to persons connected with the stone trade: a late alderman of London, the owner of considerable granite quarries in the neighbourhood of Dartmoor, which returned him a large annual income, obtained a lease of the Haytor Quarries also from the Dake of Somerset, at the almost nominal rental of 2004, per annum, upon condition, and with the philanthropic expectation on the part of the Duke, that the poor of the neighbourhood would be constantly employed. On obtaining possession, however, the lessee closed the quarries to increase the supply from his other quarries, and they remained unworked until the expiration of the lease. The present company have got a 21 years lease, at the same very moderate rental: 6500L has recently been expended in reopening the quarries, re-crecting workshops and other buildings, constructing trucks, waggons, cranes, tools, &c. It is now proposed to increase this capital to 20,000L in shares of 1L each, no further call to be made; and it is anticipated, the custom of the trade enabling the capital to be returned three times a year, that a profit of 25 per cent. will be realised. There are 10 of the largest quarries in England under the lease, situate about eight miles from Newton Abbott. Devon; and, from experiments made, it has been found that the granite will bear a greater crushing pressure than any other in the kingdom. Pennhyn gave way under 345 tons; Peterhead blue, 436; ditto red, 438; Aberdeen months' trial, that the Aberdeen lost per foot

to realise about August 1."—Hartford (U.S.) Courant.

Accounts from Adelaids to the 6th March have been received. According to the efficial returns, the revenue receipts for the quarter ending the 31st of December, amounted to \$6,028L, and the expenditure to 49,7477. The import duties had produced 26,7467, and the land sales, 16,139L Mining adventure was being pursued on an extensive scale. From 25 to 30 undertakings were in the market, and the shares were regularly quoted. The leading prices included Burra, 200; Princess Royal, 12 to 15; and Mount Remarkable, 73. On freehold property the rate of interest ruled from 12h to 15 per cent., and discounts were quoted from 20 to 32 per cent.

Advices from Perth. Western Australia, describe the lead mines in the discounts.

Advices from Perth, Western Australia, describe the lead mines in the dis-cit as being likely fully to realise the anticipations held out at the time of

their discovery.

OPENING OF THE VULCAN FORGE, DEPTFORD,—The Vulcan Forge, situated at the east end of Deptford, and erected by Mr. Arthur Ray, was on Monday last set in motion for the first time. There are two engines connected with the forge, one of 10-horse power, which is employed in driving the fan-blast, and the other of 20-horse power, which is attached to a forge hummer. The engines were erected by Mr. George Clark, and found to be perfect in their various motions. Several iron bars were forged for the use of the manufactory in the presence of a number of scientific and practical gentlemen belonging to the neighbourhood. Every variety of ironwork connected vith the various departments of shipbuilding is intended to be manufactured.—Sunderland Herald.

ROYAL GARDENS VAUKHALL—On Monday next. Mr. Ball will seem from

partments of shipbuilding is intended to be manufactured.—Sunderland Herald.

ROYAL GARDENS, VAUNALL.—On Monday next, Mr. Bell will ascend from these gardens with his "new patent locomotive balloon "—the boisterous state of the weather last week having prevented the intrepid aeronaut from testing the power of his machine. In addition to this, the equestrian fites will take place, comprising the names of Madlie. Lejars, Madlie. Pauline Cuzent, Madlie. Palmyra Annato, and Hernandez, together with splendid fireworks by Darby, and the magnificent illuminations. The Algerine Family will display them native attractions; and the gipsey tent will be open to the wanderer. On Wednesday, the 18th, a grand Horticulture Fête will be given, on which occasion 235£ will be awarded in prizes. On Thursday, a grand Bal Costume and Masquerade will be given, as nearly approaching as possible to that given by her Majesty, the 18th inst, at Buckingham Palace. During the last week, notwithstanding the incloment weather, the gardens have received more than a fair average of visitors.

Douglas journals amounce the discovery of a vein of lead ore near Peel.

a fair average of visitors.

Douglas journals announce the discovery of a vein of lead ore near Peel.

Derrouse AND PLLS.—Mr. Henry Gray, typographer, residing at No. 6, Temple-lane, City, states that be suffered for a considerable time the most excruciating pains from two deep wominds in this leg, occasioned by an accident which be unfortunately met with; and aftitough he tried various lottons and olutments, yet all were found entirely useless. He was thin recommended by a friend to use some of Bolloway's eintment and pills, which he did, and in six hears he was greatly reliaved, and in about eight days the wounds were soundly healed.—Seld by all draggists, and at Professor Holloway's establishment, 244, Strand, London.

## Mining Correspondence. BRITISH MINES.

BRITISH MINES.

ALFRED CONSOLS.—The ground in Field's engine-shaft, sinking under the 50, is much fairer than for the last 2 fms. sinking. The tode in the winze sinking under the level east of this shaft is from 3 in 4 ft. wide, nearly all solid copper ore, worth 50, per fm. The tode in the 50, east of engine-shaft, is 9 ft. wide, the driving for the past week has been on the south part: now the men are put to take down the north part of the tode, which here is worth for copper ore from 40. to 50, per fm. The tode in No.3 winze, sinking under the 70, is 5 ft. wide, very good for copper ore, worth from 70. to 80. per fm. We have commenced sinking Wid's shaft under the 70. No other change of importance to notice since the last report.

BARGALLY.—We have 7 fms. of level to drive to the shaft; the ground for the last 4 has been rather hard, but is now improved, and I hope in a short time to have

BARGALLY.—We have finis of level to drive to the shall, the ground for the last 4 has been rather hard, but is now improved, and I hope in a short time to have the level opened to the shaft; as it is being driven in the country rock, we have not made much discovery of lead ore since we cross-cut the lode, where it is very profitable ground. Our object for driving the level in the country rock is to secure a good level by the side of the lode, which will enable us to keep the water from getting down into the mine.

of the lode, when will chapte us to keep the water from getting down into the mine.

BODMIN WHEAL MARY CONSOLS.—The ends driving east and west in the 20 fm. level, on No. 6 lode, are producing good stones of fine yellow ore, but me regular leader—a very kindly lode: the ground is improved on No. 3; in the same level cast the lode is 24 foot which; west on this lode, at present is poor. In the winze sinking below adit on No. 1, the lode is large, and course about 3 fms. to hole to the back of the 10 fathou level. We are clearing the old level by six men, and raising ore there. This ground in the shaft continues very favourable.

ground in the shaft continues very favourable.

BORINGDON PARK.—Murchison's shaft is down about 4½ fans. below the adit level; I intend to continue sinking this shaft with the whim with all possible dispatch, until the engine is in course of working; the end is in about 12 fms. from Murchison's shaft, and we are driving on the south part of the lede, the part we are carrying is from 2 to 3 flet wide, saving work. We have commenced dressing, but are not getting for so well as I could wish, in consequence of the dressing pare not being acquainted with the work, and it is impossible to get a pare in this neighbourhood who understand it. The masons have commenced the engine-house, which will be proceeded with as quickly as possible.

as possible.

BRYN-ARIAN.—The 20 fm, level, driving west from the winze, is in a large orey tode, yielding about a ton of ore to the fin.; the same level, driving east from the winze, on some branches split off from the tode, is yielding 10 ewts. of ore per fm.; we are also driving in this level on some branches, which are producing at present about 8 ewts. of ore per fm. The lode in the 10 fm. level, west of the engine-shaft, is large and spotted with ore, but not of any value at present; the stopes in the back of this level will yield 8 ewts. of ore per fm. Hallett's shaft is now down to the 20, and we shall commence driving each way from it on the course of the lode, about Friday, the 13th inst.; the ground here is favourable for driving. We hope shortly to get through the cross measure of ground that now disorders the tode, as there are large workings gone down in the bottom of the 10 fm. level, made by the old men, which run of ore ground we hope to reach in the course of a month or alk weeks. Twenty five tons of ore have been shipped, and there are about 13 tons now on the mine.

BRYNTAIL.—In handing my report to the meeting. I beg to observe that

BRYNTAIL.—In handing my report to the meeting, I beg to observe that the profits are not so large as I anticipated, in consequence of the deficiency of dressing power in January and February; but, from this time, our returns will be about 60 tons monthly, our cost about 306. The 15 fm. level, going eastward (15 fms. above the adit level), has gone through about 14 fms. of orey ground the last three months, yielding on the average 2½ tons per fm.; this shoot of ore has been worked back, west of the end, by Gell and ourselves, for more than 60 fms. in length, the backs of which are nearly all to take away. The engine-shaft will be down in the middle of this shoot of ore 16 fms. below the addt level in five months; at present, only 3 fms. from surface, it will yield 1 ton of ore per fathom, proving the ore makes to grass. The 15 fm. level end eastward will now produce 2 tons of ore per fm.; the stope west will produce 4 tons of ore per fm. The 5 fm. level stope will yield 2 tons of ore per fm. The north adit level is poor; the fourth cross-cut is also poor. The stope, east of Hill's rise, will produce 4 tons of ore per fm. The first cross-cut is without any improvement, yielding 12 to 15 owns, of ore per fm. The first cross-cut is without any improvement, yielding 12 to 15 owns, of ore per fm. Everything on surface proceeds satisfactorily; the new mill will be at work against our next pay; we have been short of carpenters, or it would have been working some time ago.

pay; we have been short of carpenters, or at would have been working some time ago.

BUTTERDON.—The engine shaft is sunk 2 fms. 4 ft. bellow the 30, grounfavourable for sinking—under the slide we have met with good branches of lead. Th
lode in the 30 south is 2½ ft. wide, and its appearance improved, the lead being mor
compact and general; the bottom of the end continues the best, and will probably pay
for working; the killas, too, is impregnated with lead, and on the whole is a very on
oursging looking end. In the 30 north the lode is 1½ ft. wide—soft spar-ond gossan.

CALSTOCK CONSOLS.—A great improvement has lately taken place here in driving eastward on the course of the lode, which is composed of grey, yellow, and black copper ore, in a beautiful spar, and a quantity of mundic. The lode in the present end is intersected by a cross-course, which has heaved it about 2 fms. to the right. From the character of the lode on the western side of the cross-course, we anticipate cutting a rich lode on the castern side. This is the large gossan lode which has lately been cut at surface in the adjoining sett of Wheal Zion. The level we are driving is 55 fms. doep.

CARADON VALE.—We have set 2 fithoms to sink a lode that seems to be unling north of all our present workings. I hope it may be so, as it is truly a very romising lode—in fuct, 1 have not seen any lode that I think more likely to prove prouctive. The lode in the 32 cast is looking better. The men are now sinking the engine-naft, and from present appearances the ground is as it was above. The cross-cut south somewhat harder than it was.

CARADON WOOD.—The engine-shaft is progressing, and the ground fa-ourable. We have commenced cutting the under leat, and hope we shall be able to lanage to get the water over the wheel, without troubling our neighbours. We have one down the river farther then was first concemplated, so that we can gain several feel incre fall than we expected when we wrote you last. We are preparing for smiths and arpenters' shops, so we shall be ready for building next week.

more fall than we expected when we wrote you last. We are preparing for smiths and carpenters' shops, so we shall be ready for building next week.

CARTHEW CONSOLS.—The engine-shaft is now sunk about 7 fms below the 85 fm. level, and we hope, with a continuation of that success with which we have hitherto been favoured in this sink, to be down to the 95 fm. level in the whole of this month. From the 85 fm. level, down to within 2 or 3 ft. from the bottom of the shaft, the lode has been quite in a disordered state, by means of the No. 2 slide, or a portion thereof, having remained a disordered state, by means of the No. 2 slide, or a portion thereof, having remained in contact with it; but now this alide, it appears, has entirely left it, and its appearances below the slide are of a very pleasing character; it is fast increasing in width, and is composed of a very well-looking soft withe spar', a little mandile, and fine stones of copper. Sluce my last report we have met with a very good improvement in the lode in the 85 fm. level north; the lode here made a sudden turn to the east, which obscured it from our view for a short time; but in cross-cutting about 2 ft. we again intersected it, and found it very much better than before, and it has since continued so, being now about 2½ ft. wide, i.g. ft. of which is good work for lead and copper. The east and west lode is producing good work in lead and copper in the 75 fm. level, to drive on it, but had always been getting some very rich copper, and though it is now 4 ft. wide, i.g. ft. of which yields good work, principally lead, yet I am fully persuaded we shall shortly find this to be wholly a copper lode of great value—the indications are exceedingly good, and the samples of ore very fine. In the south end, 75 fm. level, 1 ft. of which yields good work, principally lead, yet I am fully persuaded we shall shortly find this to be wholly a copper lode of great value—the indications are exceedingly good, and the samples of ore very fine. In the south end, 75 fm. leve

CYFANNEDD FAWR.—We have stopped the western drivings for the present, and have put the men to stope the ore in No. 2 driving. The lode is widening the sink of No. 1, and is producing some fine stones of lead ore. We shall continue this fee the weath.

phis for the mouth.

DEVON AND COURTENAY.—The 60 end west is worth 2 tons of copper ore per fm., and, judging from the present appearance of the lode, I believe it will still continue to improve; the lode is about 4 ft. wide. The winze in the 40 fm. level will turn out about 12 fens per fm.; the bottem of the winze is about 9 fms. above the 60 fm. level, and about the same distance before the present end. We have holed Carthew's shaft by a borer hole to the cross-cut driven under it from the adit level. The foundry people have promised to get all the castings ready for the wheel, bobs, &c., in about three weeks from this time.

DOI.FRWYNOG.—There is no change to notice in the driving to cut the anddr Goch lode—the ground continues very favourable. The six men employed in the ones level will be discontinued for this month, and employed clearing out the deads cut the deads cut the clear cut the deads cut the cu

adventurers.

EAST BALLESWIDDEN.—This mine is in the granite eastward of the Sancreed elevation; it contains five or more lodes discovered, and amongst them a principal champion lode, underlaying 7 ft. per fm. south-west, of a large size, and of a character very congenial for tin, and in an easily workable granite, much stained. This lode is crossed by the others at various angles, and from the intersections already discovered, considerable quantities of tin ore have been exevated; I think from the late progress of the mine in the usual reports of Capt. Carthew since I inspected it, we may confidently anticipate that, as these intersections are approached, in extending the levels in depth, valuable results may be expected to accurate.

EAST BIRCH TOR.—The lode in our shallow level driving is from 8 to 10 in. wide, and it is producing some very excellent work for tin. The stopes also in the 15 febom level waves the avery termining appearance; and we have the usual number of 15 febom level waves the avery termining appearance; and we have the usual number of

ands employed on the more.

EAST BORINGDON.—Annie's shaft is down about 12 fins.; the ground ulte altered since my lest report, being for the last 6 ft. in a good blue killas, the san Boringdon Park. I hope to get the whim completed next week, and intend sinkin 0 fins. before I cross cut to the lode, which, in my opinion, will prove productive.

EAST CROWNDALE.—The 47 cast has been driven 8 fathoms from shaft—the lede at present is improving; the leader of ore is about 16 in. wide, good saving work, worth 74, per fm.; the same level, on north iode, has been driven 18 fathoms west, lode poor. The 58 cross-cut has only reached the lode; nothing done on its course, therefore we think it desirable to drive east and west, and also at the 47 above with all possible speed, seeing our engine cost will not be less than 40. per month. We also think that the north lode is worthy of further trial, judging from its character, and the great amount of available work done in sinking the shaft and driving cross-cuts; the south, or main lode, is poor. Unless the north lode is worked with spirit for a few mentlas—axy, by 18 mens in the three ends—it would be better for the shark older to about in at once; it would cost about 140. monthly. At Rix Hill we have still the in the 50, but not rich; the lode in the shaft is large, producing a listle tin. Our sampling will be on the 19th inst,

EAST WHEAL GEORGE.—The lode in the 23 fm. level east is producing occasionally good stones of ore; the lode in the same level west is composed of capel, mundle, and spots of ore, a very kindly lode. I have no doubt but that we shall soon most with a greater imprevenent in this level, sa we are approaching the bunch of orderiven through in the level above. The stopes in the back of this level, which is on the branch to the north of the lode, are yielding about 61 weets of ore per fm., it being of excellent quality. The lode in the 12 fm. level, east of shaft, is 4 ft. wide, the north part

of which is producing good stones of ere; the lode in the winse sinking below this level, west of shaft, is 3 ft. wide, worth 12t. per fm. On the 5th inst. we sampled May eres, 22 tons 3 evers, of good quality.

22 tons 3 cwts., of good quality.

EAST WHEAL RASHLEIGH.—The shaftmen are progressing favourably, sinking a fathem per week at 24.10s. per fm. The north and south lode is disordered in the bottom by the intersection of an east and west lode crossing through the shaft, which we have not yet cut through; there are spots of lead and copper in it. We are continuing the western sevel—ground somewhat changed since my last. Altogether, the mine may be said to be looking well.

EAST WHEAL RUSSELL.—Hitchina's shaft is made good 17 fms. 8 ft. below the adit level; we should have sunk more, but for the engine requiring some repairs. We must now prepare the work in the shaft for the new engine; we are getting on well with the building of the new engine-house, &c., and shall be glad wire getting on well with the building of the new engine-house, &c., and shall be glad wire notle to sink with greater speed than of late, which the new engine will enable us to 40. The lode is looking just the same as stated in my last week's report, showing strong indications of a great and good mine, but we must get under the gessan before it will be realised.

tions of a great and good mine, but we must get under the gossan before it will be realised.

ESGAIR LLEE.—The caunter lode in the deep adit, east of Morgan's winze, is from 4 to 5 feet wide, with small branches of quartz and ore. The lose in the winze under the 12 east is 2 feet wide, principally gossan, with a strong mixture of ore. The stopes on an average will yield 8 or 10 cwts. of ore per fin. We are cutting down the engine-shaft with all speed, and expect in a week to be down to the deep adit. On Well-nesday we put on board the Sincerity 20 tons of ore.

EXMOOR WHEAL ELIZA.—Since the last meeting, the north lode in the 35 fm. level has been reached and cut through; it is about 8 ft. big, is split up into several branches, and running through a beautiful channel of ground, composed chiefly of carbonate of lime, spar, peach, a little runnide, and fine spots of yellow copper; it is now being driven on east to reach the place where the branches are coming together, where a good discovery may be expected, as the character of the lode is very kindly for copper, a very promising fedge, about 4 ft. big, between the middle and north lodes, has also been driven on, and from which, on the eastern side of the cross-cut, some fine work for copper as been taken. To the west of the cross-cut a slide crosses the fode, under which there is a branch of red oxide of copper going down, about 5 in. wide. The middle lode in the 36 fm. level is abs Improving for copper going west, the loge at present is about 22. big, but appears to be opening very fast. On the whole, the appearances of this mine are very encouraging indeed.

GEORGE AND CHARLOTTE—In the shallow level sast, on the south

in the 36 fm. level is also improving for copper going west, the lofe at present is about 2 ft. big, but appears to be opaning very fast. On the whole, the appearances of this mine are very encouraging indeed.

GEORGE AND CHARLOTTE.—In the shallow level east, on the south lode, a cross-course has come in, and hove it about 4 ft. to the south; we hope to again cut into it in the course of next week, when we may fairly calculate on finding it as productive as when cut off. The lode in the end driving east, on the north lode, in this level, is from 4 to 5 ft. ft. wide, composed principally of peach, mundic, quarte, &c. The shoding on the top of the hill has been continued, and three large lodes have been met with, containing strong-looking gossan and rich copper ore, being within a distince of 46 fms. from our end, which, perhaps, would be the proper place for a new shaft. The rise in the back of the deep adit level, at William and Mary, side of the hill, is now up about 5 fms.; the lode is 3 ft. wide, producing good stones of ore. The clearing and making of the whim-shaft has been attended with success, having reached the old bottoms, and am glad to say the lode has a most kindly appearance, yielding full 1 it on of ore per fm.

GREAT SHEBA CONSOL'S.—In again inspecting this great champion lodes so far as driven west on, in the deep adit, 1 am much pleased with its appearances, and 1 believe from what can be seen of its character that it will prove to be a very valuable on when hald open to a reasonable depth. I consider that this adit is driven west as far as it necessary or advisable, the character of the lode being fully shown, and no discovery of importance can be expected at so shallow a depth, and should recommend you to discontinue any further cutlay in this level. An engine-shaft is now in course of sinking, and is down about 20 fms. below surface; there remains about 12 fms. more to sink to intersect the lode. At this point, when reached, I would recommend you to discontinue only further cutlay in this l

GREAT SOUTH WHEAL ALFRED.—Since commencing operations we ave cleared and secured the shaft on the Aifred Consols lode, and costeaned to cut the uth lodes. In the shaft the lode is large and promising, composed of fine gossan and ones of ore of good quality. We have discovered two other lodes of very promising apparames; in one we have stones of grey copper ore.

stones of ore of good quality. We have discovered two other lodes of very promising appearance; in one we have stones of grey copper ore.

GREAT WHEAL BADDERN.—The 51 fathom bottom level, east of Kenworthy's shaft, ground not quite so fair—lode 12 in. wide, producing rich stones of kenworthy's shaft, ground not quite so fair—lode 12 in. wide, producing rich stones of well, ore; the stopes in the back of this level, east and west of Tweedade's are producing well. The 40, east of Buckley's shaft, is considerably improved, both for driving and lead—we have reason to think we shall soon lawe further improvement at this producing in this level are producing fairly. The 30 and, east of Burgan's shaft, is not rich for lead at present, and ground rather hard; it he stopes west are improving. The shaft is completed to the 30, and we purpose cutting plats at the 30 and 20. The 20, east of Burgan's, continues good, ground unusually fair—stopes satisfactory. We are again putting up a rise in the back of this level, and only 4 or 5 fms. bellind the end, to communicate with the adit, and the lode is opening well. The tribute pitch in the adit level, on new lode, is proving well; the other pitch on the old lode has also improved. The tribute pitch, on Kenworthy's, 30 fm. level, is rather poor. The surface operations are going forward steadily and satisfactorly. The mine throughout presents a very cheering aspect. I trust the ticketing for the two parcels of lead, sold on Saturday last, has been satisfactory—computed 39 tons.

computed 39 tons.

HENNOCK.—I have put the shaftmen to cut plat in the 39 fm. level, and the winze men to drive north to hole to the winze in the same level. On opening the ground in the 30, there is a great change in its character for the better. We have now a very white killas to the east of the lode, with branches of soft spar and lead, &c., which I have not seen in the upper levels. On the eastern lode in the 20 fm. level they have driven 6 ft., but are not yes through it; it is a very kindly lode, and producing some good stones of lead. We shall confine our operations now to the 30, driving north; and the shaftmen will cut the plat, and will then sink the shaft 6 ft., to put in bearers and clearn for fixing the plunger-lift, and get in order for sinking the shaft from the 30 to the 40 fathom levels.

eistern for fixing the plunger-lift, and get in order for sinking the sinkt from the 30 to the 40 fathorn levels.

HOLMBUSH.—The fode in the western stopes, in the back of the 182, is 18 in, wide, producing 2 tons of ore per fin.; the eastern stopes will produce 3 tons of ore per fin. The lode in the 132 south is 3 ft. wide, composed of quartz, prian, and stones of lead; the same remarks will apply to the lode in the rise in the back of this level. We shall push on those places as fast as possible, to drain and lay open the 120 fm. level. The lode in the 132, seven to 132 in. wide, composed of mundic, spar, and stones of ore per fin. The rise over the end is 12 in. wide, composed of mundic, spar, and stones of ore. Hitchine's engine-shaft, below the 132, is just as it has been. The lode in the wines sinking below the 120, on the north part, is 18 in. wide, roducing stones of ore—this is over the tree in the 132. The 120, east of the cross-course, on the Flapjack lode, is idle, for the want of men to take it, so many little mines having lately been set to work that there is a scarcity of men, at least for the present; we shall resume the driving of the the first opportunity. The lode in the 120 nord; is 34 ft. wide, producing stones of lead. The Flapjack lode in the 110 east is 3 ft. wide, composed of mundic, soft spar, and prian, with stones of ore, opening tribute ground. The 100 east is 20 in. wide, producing 31 ton of ore per fin.; the 100, west of Wall's, is 4 ft. wide, producing st ones of ore and a great quantity of mundic. The ground in Wall's engine-shaft, sinking below ine 100, is improved, 8 ft. 6 in. having been sunk lastmonth, and is now set at 38-t. per fin. KESWICK.—Since my last report, the worklugs at Brandley have been con-

producing 13 ton of ore per im.; the cow, was to the work engine-shaft, sinking below the 100, is improved, 8 ft. 6 in. having been sunk last month, and is now set at 384, per fm.

KESWICK.—Since my last report, the workings at Brandley have been confined to the salt level, which has been widered, and preparations made for sinking the salt sump, to hole the 20 fm. level north as soon as the water is out; the ore is worth 10 cwts, per fm. We have two tribute pitches in this level; the one left standing in the 20 fm. forehead, which we cut (with the water that drove us out), is worth about 10 cwts. By making communication between the 20 fm. and salt lovel, we shall open out a lines of ore have been raised, but nothing of consequence under the level, the water being too strong for hand-pumping. In the 20 fm. north are two stopes, worth 5 and 10 cwts. The 20 fm. south is a most promising lode, with small strings of one. We have everything ready for slaking the engine-shaft, which we had commenced when driven out. When we have sunk about 8 fms. we shall cross-cut, and drive to a pipe of -cre, which we sunk upon in the 25 fm. north with all possible speed; by so doing it will be the sooner in a profitable condition, with the same expense in pumping, &c. The bettom level, at old Brandley, has been stopped for the present, but we have a tribute pitch in the 27 fm. level sole, where we have one worth 30 cwts. to 2 tons, per fm. in the first pipe of 5 fms. long, and from 8 cwts. to 2 tans in the second pipe of 8 fms. long. In the 17 fm. lose keep where we have one worth 30 cwts. to 2 tons, per fm. in the first pipe of 5 fms. long, and from 8 cwts. to 2 tans in the second pipe of 8 fms. long. In the 17 fm. lose keep where we have one worth 30 cwts. to 2 tons, per fm. in the first pipe of 5 fms. long, and from 8 cwts. to 2 tans in the second pipe of 8 fms. long. In the 17 fm. lose keep where we have one worth 30 cwts. to 2 tons, per fm. in the first pipe of 5 fms. long, and from 8 cwts. to 2 tans in the second pipe of 8 fm

LAMHEROOE WHEAL MARIA.—We have six men employed stoping cast of Addis's shaft 5 fms. below the surface. I examined the stopes on the 11th inst., and find the lode will produce about 10 per cent. marketable tin; the lode is 7 ft. wide. I have six men employed making preparations to put in the surface rods and the pitwork in Jessie's shaft. No alteration has taken place in the 60 cross-cut, north of engine-shaft.

have six most employed making preparations to plant in the surface tools and not plants. In Jessie's shaft. No alteration has taken place in the 50 cross-cut, north of engine-shaft.

LLWYNMALEES.—We shall finish securing and timbering the ground shaft the north side of the stopes west from western winze this versing (June 6). In the 24 m. level west the lode looks better than last reported, also the 14 west; we are te-day breaking large solid lumps of ore in this level; at present the lode is worth 60, per fine. Our men have been too much engaged timbering, and securing the ground in the stopes this week to admit our altering the pump work, and I now mean to defer doing so for six or seven weeks more, as I want all the men we have for sloping down the ore west of western whize. The pump work that requires altering is the putting the two present iff of pumps into one lift, so as to admit six men to cut a place for the elstern in the bottom of the 8 fm. level, in the spot which our present top lift occupied, as the top of the elstern must be even with the bottom of the 8 fathom level. The elbering of the pump will not alled our working in any other part of the mine but the 24 fm. level west, and here but hinder our working in any other part of the mine but the 24 fm. level west, and here but hinder our working in any other part of the mine but that the 24 fm. level west, and here but for a swe hours. After the two lifts are put into one lift of pumps, we can at any time out out ground for elstern, and afterwards put in the plunger, without lindering any part of the mine, as the engine may be working whilst we are fixing the plunger and cistern.

LYDFORD CONSOLS.—At Wheal Mary, the lode in the gossan shaft has produced some good stones of copper ore, a very kindly lode. At Wheal Advanture, the lode in the adit end, south of engine shaft, has been disordered, but is now more regular, somewhat larger, and composed of munde and flooken—a kindly lode.

somewhat larger, and composed of mundle and flookan—a kindly lode.

MERLLYN.—The lode in the 26 fathors level, east from the whim shaft, is worth 331, per fam; the west ditto is worth 31, per fathors. The 16, west from Boundary winse, is worth 301, per fm. The 16, west from the whim-shaft, is worth 31, per fathors. The 15 yard level, west of the footway shaft, is improved, worth 121, per fm. The surject-shaft has been set to 12 men, at 1901, to sink 10 fathors, which I hope will be got through in three months. The 30 tons of ore sold fetched, 111, 17a, 6d, per ton.

proon molas lod east this sto

NORTH WHEAL ROBERT.—Since the last quarterly meeting, we have driven the adit level 35 fms.; the lade is 5 ft. wide, consposed of sper, peach, mandic, and a very fine flockar, with stemss of ore, and with a beautiful white clay-alate of a very congenial character—large streams of water issuing from the end. There is now 37 fms. to communicate with Murchison's engine-shaft, which, according to the present rate, would take 15 months; the said shaft is sunk 10 fms. I should strongly recommend that it be anni 35 fms. before a cross-ent be driven, which would has in the adit level; this would take eight months, when we could drive cast to meet the adit send; and have 35 fathoms of pumps to commence sinking under the adit. From various indicates, I am oplined that, when we cross-cut the lode, we shall be in possession of a rich lode of copper ore. We have taken out the wheel-pit 110 fms. solid measure, built the walls of the said pit, and fixed the axie of the water-wheel in its bearings; and we have cut 376 fms. of which is arched over, and filed in to make good the land. We have taken out the bob-pit, 26 fms. 4 ft. 7 in., solid measure, and the masons are now engaged in building the wails; and all the other works are progressing, and hope to go to work by the and of June. We have also cut a plat in the adit level 4 fms. 3 ft., solid measure, put in 30 fm. alr-pipes, and built a sump-house, &c.

in 30 fm. air-pipes, and built a sump-house, &c.

PENNANT AND CRAIGWEN.—I am glad that I am able to inform you the lode in No. 1 adit has greatly improved this week; it is now 19 in, wide in the back, and about 16 inches in the bottom, making a good strong mixture of ore all through. There are also many strings of ore (feeders) making from the killas side into the lode. I fully expect soon to have a thorough good lode near the junction. I have also set four miners this day (June 7) in Bush's adit, but have only let 1 fm., as I expect the ground to alter for the better near the lode.

to alter for the better near the lode.

PENTIRE GLAZE AND PENTIRE UNITED.—Within these last two days the lode in the 22 fm. level north has improved to about 1 ton of lead per fm. We are now almost disposed to pronounce this to be the same lode, which we cut into in the 10, in which we have driven about 8 fms. on an average course of lead ore worth 84 tons per fm.; we shall prove this by sinking a winso. The 23, above the deep adit driving south, still holds good, worth 3 tons of lead ore per fm., and is approaching a point opposite to the large deposit worked out by former adventurers. Other tutwork, as recommended, is set, from which, without any tribute pitch, we hope to raise from 20 to 30 tons of crop ore this month. The biddings for our last parcel, computed 44 tons of mixed ores—viz., Tamar Smelting Company, 87, 13s. 5d. per ton; Newton, Reates, and Co., 5d. 13s., Meredith, 94. 10s. 5d.; Locke, Blackett, and Co., 5d. Se. 6d. Our next parcel will be all crop, consequently a much higher price will be realised for it.

will be all crop, consequently a much higher price will be realised for it.

PENZANCE CONSOLS.—In our stopes west of Carthew's shaft, in the 24 fm. level, we have a good lode of rich-quality tinstuff; in the stopes east of ditto the lode is large, with good stones of tin; in the stopes in the back of the 24 the lode is 2 ft. wide, with tin throughout, 4 in. of which is rich-quality work. In the end going cast, on the new lode, the lode is 15 in. wide, 8 in. of it good quality stuff. In the end going west, on same lode, the lode is 3 ft. wide, and is much improved since last week. In the end going west, on the engine lode, the lode is large, but not rich at present.

PRAED CONSOLS.—We are pushing on the work as quick as possible; 5 fms. have been officed to cut a plat, and to cut a great deal of ground around it, in order to make it a good working shaft in future. The lease will be completed now very shortly, including the plece of ground to the east, which will make our sett as large as any in the neighbourhood.

any in the neighbourhood.

SOUTH OF SCOTLAND MINES.—The south shaft is nearly completed down to the top level, and we will begin immediately to sink 13 fms. deeper. The ere in the back of the 7 fathom level is much about the same as when I last wrote to you. We shope to be in a position to employ some more miners to work on ore in the course of a few days. Our dressing-floors will be ready in a few days, when we shall make a start to dress up the pile of ore on hand.

SOUTH WHEAL TRELAWNY.—The 60 is still driving with six men, round not so favourable, lode split, with horses of killas and capels and mundle between, and water issuing out of the end. I fancy the branches will form a junction again. In ther respects, things are in regular course of working.

TREBELL CONSOLS.—Since my last the lode has improved in quality. have not yet tried the tinstuff, to ascertain what quantity of tin there is in 100 sacks. We broke some on the 30th May, in the bottom of the end, that was more rich for tha han what we formerly raised. We shall not cut through the lode, as we are endeavouring to get to the bottom of the gossan for ventilation, and to cut off the rulling, when the tuff will be near the place for stamping. The mine is looking better than ever it did.

stuff will be near the place for stamping. The mine is looking better than ever it did.

TRELAWNY.—Trelawny shaft is sunk 12 fms. 4 ft. 6 in. below the 92 fm. level, ground still favourable. In the 92 end north the lode is 3 ft. wide, and worth 81 per fm. In the south end, at this level, the lode is also 3 ft. wide, and worth 81 per fm. In the 82 end north the lode is 3 ft. wide, and worth 81 per fm. In the 82 end north the lode is 3 ft. wide, and worth 201 per fm. We find the 72 end is not quite home to our boundary, and we have resumed the driving of it, where the lode is 2 ft. wide, and worth 81 per fm. At the north mine, in the 78 end, north of Trehane, the lode is 2 ft. wide, and worth 71 per fm. In the 68 end, north of ditto, the lode is 2 ft. wide, and worth 71 per fm. In the 68 end, north of ditto, the lode is 2 ft. wide, and worth 71 per fm. In the 68 end, north of ditto, the lode is 2 ft. wide, and worth 72 per fm. In the 68 end, and the ground very good; there has not been so much sunk this week as usual, in consequence of having cut the slide, the men being engaged putting in timber to secure it. In the 55 end, north of ditto, the lode is is ft. wide, and worth 61 per fm. The stopes are without alteration. On Tuesday last we shipped the parcel of lead ores sold Messrs. Locke, Blackett, and Co., 24th May; it weighed 99 tons 10 cwts.

TRELEHHOLD CONSOIS.—Christope Lodes in the 100 fm. level west of Consequence.

Locke, Blackets, and Co., 24th May; it weighed 99 tons 10 cwts.

TRELEIGH CONSOLS.—Christoc Lode: in the 100 fm. level, west of Garden's, lode 20 in. wide, with stones of ore. In the 90 west the lode is 20 in. wide, worth 20\( \text{L} \) per fm. In the 80 west lode 18 in. wide, with stones of ore; in the 80, east of Christoc, there has been no lode taken down this week.—Farent Lode: In the 64 cross-cut, north of Parent engine shaft, we are driving to cut Parent lode. The 64 cross-cut south is driving to cut the south lode.—Middle Lode: in the 40, east of cross cut, the lode is 1f. wide, with good stones of ore. At Burgeas shaft, below the adit, there has been no lode taken down this week.

been no lode taken down this week.

TRELOWETH,—The engine-shaft is sunk in the past week about 6 ft. below the 45, the ground a little harder, being in killas. The cross cut south is driven 7 feet. The cross-cut in the 32 driven 2 ft., lode very hard, composed of capels and spar, with stones of copper ore; I am expecting more mineral on the south part. Harrison's shaft is sunk below the old men's workings 5 ft., lode 10 ft. big, and spotted with copper ore, but not to value. The winze sinking below the 12 is large, lode producing good stones of copper ore.—Since the foregoing, we are into the lode at the 32 14 ft., and no south wall as yet can be seen; at the extreme point some excellent stones of yellow ore have been broken. In the winze under the 12, the south part of the lode is most promising for copper ore.

For copper ore.

TRETHEVY.—The ground in our engine-shaft is decidedly altered for the setter, and I believe that we shall soon cut through the hard ground; the south-west orner of the shaft is now in good ground; the eastern end is through the cross-course, nd we hope to see the lode to the east in a day or so; the air is bad in the end, the men amout get on as fast as could be wished. No improvement in the western end.

TYWARDREATH.—The shaft has been put down to the rock; the killas soft and broken, and another set of castings will have to be put in, which will make 0 fms. In passing through some loose stony ground some stones spotted with mundic all copper were met with.

and copper were mer with.

VICTORIA.—The deep adit has been driven north 7 ft., ground favourable;
the shallow adit south has been driven 4\$ ft. The cross-course is a large decomposed
granite. Nothing new as yet discovered in either cross-cut, and the tin lode not taken
down for the week. The western level, on the north lode, has been driven about 6 ft.—

down for the week. The western level, on the north lode, has been driven about 6 ft.—
lode small and poor.

WEST DING DONG (SANCREED).—On Saturday (June 7) we set plat to
cut, to put in penthouse, &c., in the 17 fm. level, preparatory to sinking the engine-shaft
another 10 fms.; the lode from the 7 fm. to the 17 fm. level in this shaft will work at
half tribute. The 17 fm. level east is set at 4k. 10s, per fm., and 2s. 6d. tribute; the lode
opened on in this level would set at 10s, tribute. The western end is suspended whilst
the plat is cutting; the lode quite as good as in the eastern level, and ground just the same.
The 7 fm. west is in a disordered state, having just passed a cross-course. We had a good
lode to within a few feet of the crossing, and expect, on getting off, the lode will again
improve; price, 4k. 10s. per fm. The winze sinking below this level, about 12 fms. from
shaft, is looking very well; depth 4 fms., with a good lode in each end and going down;
price, 3t. per fm., and 2s. 4d. tribute. We have taken up a shaft about 39 fms. west of
this winze; the lode is all worked above the adit level, and there are several small branches
of tin failing in with it, which have a very kindly appearance. I expect we shall have as
good tin ground east and west of this shaft as we have in any part of the mine. We have
only one tribute pitch working east of the shaft at 10s., but shall be in a position in the
course of two months to set four others, one west of the shaft cast and west of the exstern winze, all at, or under, 10s. in 11. As the water has fallen
off, we shall not return so much tin; our object now is to lay out the mine so as to be
in a favourable position for doing so when the wet season returns. Our atampa? floors are
in good dressing order. Upon the whole, I think our prospects bid fair to remove the
prignice there has been against this district.

WEST GOGINAN.—The lode is the engine-shaft, sinking under the 15 fm.

prejudice there has been against this district.

WEST GOGINAN.—The lode in the engine-shaft, sinking under the 15 fm. level, is from 5 to 6 ft. wide, spotted with lead ore. The lode in the adis level, east from the old shaft, is 5 ft. wide, composed of gossan, maxed with spar, jack, and killas, and at times small branches of lead ore. The men are getting on well in cutting the water-course, and hope to complete it by the end of next week. The carpenters have nearly flashed the wood work for the wheel.

WEST RUSSELL.—The lode in the 37 has a promising appearance, being from 3 to 4 feet wide, with a branch of copper ore on its south part.

WEST WHEAL JEWEL.—The 85 fathom level, west of Williams's cross-course, on Wheal Jewel lode, is worth 64, per fm.—drove last month 2 fms. We have annk the winas 4 ft. The 70 west is suspended, to sink a winze below the level—drove last month 1 fm. 4 ft. 3 in. The cross-cut south, in the adit level, drove last month 3 fms. 2 ft. The 57, was of Hodge's cross-course, on Tolcarne tin hode, is worth 94, per fm.—drove last month 4 fm. 4 ft.; the stopes in the back of this level, worth 92, per fm.—drove last month 1 fm. 4 ft.; the stopes in the back of this level, worth 92, per fm.—drove last month 1 fm. 6 fm.; rose on Hodge's cross-course 3 fms. 3 fm.; the 57 are 1 fm. 57 fm.; the 57 rest to 65 are 1; the 57 are 1 fm. 5 fm.; the 57 rest to 16 ft. or 1 fm. 1 fm. 6 fm.; the cone on Hodge's cross-course 3 fms. 3 fm.; the 1 fm. 5 fm.; the 57 rest to 1 fm. 5 fm.; the 50 rest to 1 fm. 5 fm.; the 57 rest to 1 fm. 5 fm.; the 50 rest to 1 fm. 5 fm.; the fm.—drove last month 1 fm. 4 ft.; the stopes in the back of this level, worth 30L per fm.—atoped last month 4 fm. 6 in.; rose on Hodge's cross-course 3 fm.s. 3 in.; the 57 east, producing stones of tin, drove last month 1 fm. 5 ft. 6 in. The 42, west of Quarry shaft, on Tolearne tin lode, producing stones of tin, and has a promising appearance—drove last month 2 fm.s. Sunk in Tregoning's shaft last month 1 fm. 5 ft. Thus shallow addit level, west of Tregoning's shaft, on Tolearne tin lode, worth 77, per fm., drove last month 2 fm. 2 ft. The stopes in the bottom of the 12, east of Quarry shaft, on the same lode, are worth 10t, per fm.; the atopes in the bottom of this level, west of Tregoning's winze, on the same lode, are worth 24t per fathom. These stopes are working on tribute.

atopes are working on tribute.

WEST WHEAL TOWAN.—In driving the 20 fin. level cross-cut north
from Taylor's shaft, a lede has been intersected in the past week; it is 6 in. wide, rich
for tin and mundle, and looking promising. The lede in the 18, east of Caroline's shaft,
is 7 feet wide, spar, mundle, and tin, and looking kindly; the north lode is not yet cut
in this level. In the winze sinking from the 7 fm. level there is a very promising lode,
4 feet wide, saving work for tin, and the ground about the lede is so tiledky impregnated
with tin branches, that the whole is saved for the stamps. The sinking of Taylor's shaft
and other works are proceeding favourably. The tinstuff broken by the tributers has
been sampled, and turns out quite to expectation.

been sampled, and turns out quite to expectation.

WHEAL ADAMS.—In the 72.fathom level we have driven the end to the south boundary, and have made every preparation for the Wheal Exmouth men to commonoe driving to-day (9th inst.) Aithough the rise on the quartone lode has met with a floor of finable quarts and clay-alate, we expect a change in a few feet higher up. The stopes will now produce about 1½ ton of one of good quality in a fin. The stopes to the rorth of the rise (idea 30 feet wide) are worth 25t, per fm. for the width of the lode. The stopes in the bottom of the 68 will produce 24 tens of one per fm. The lode in the 50, nerth of old augine shaft, is 2 feet wide, composed of quarts and harytes, spotted with

ad-ground favourable for driving. The ground in the 40 cross-cut, towards shaft continues good, but our progress is alow, on account of a deficiency of air; the stopes in its dead of this level will produce a curis, of ladd por in. The St, divining north, is still in disordered ground. The pilch conflictes much the same as last reported. At Aller, to lote does not outsin quite as much much gasant or cardonate of lead; it is more tatey and mundry throughout. No alternation has taken place at Hill; lote here, and on the latter and the latter place at Hill; lote here, and only lot of the latter place and will forward the hill ground the latter place will forward the hill ground will forward the hill place of the latter place and will forward the hill

of lading in a day or two.

WHEAL AUGUSTA.—This mine is in the same part of the St. Just district as the Balleswidden Mine. Its stanniferous character is the same, being, from all the evidence deducible, formed under the same circumstances. The amount of work in driving and sinking has pretty clearly cluddated the point, which tends to the conclusion that this mine will ultimately be a valuable property.

WHEAL BENNY.—We have men employed in driving east from the cross course on the Wheal Benny lode; the said lode is cut through 2 fathoms behind the end 3 ft. wide, composed of capel, spotted with mundic. As soon as I can get the water-fal and air pipes in the level, I intend to put the same men to drive south-east of the cross course, as a trial of that ground. where, as a trial of that ground.

WHEAL CREBOR.—In the 54 cross-cut we have met with the north lode.

WHEAL CENDUR.—It is 02 cross-cut we have met with the north rode; the part already seen is about 1 ft. wide, rich for copper; the cross-cut will be continued north, as the lodge are only about 10 ft. asunder, and are likely at the present underlay to form a junction between this and the next level; and I have every reason to believe our deeper levels will, when driven through, bring Crebor into the position she once held —viz.: a good mine. The lode in the 40 end is of a promising character, with good stones of copper in the same, but not to value. Our tribute and dressing are going on favourably. We have the foundation of the house taken out.

with all spirit, in order to get out of the limestone and under the shoot of ore gone down in the quarty. There is scarcely any alteration in the end since my last report.

WHEAL LANGFORD AND BARING.—Since my last report we have sunk Dare's shaft 5 ft., and are now 1 fm. 4 ft. below the adit level; the ground is of a favourable character, but the water is increasing. I think with the assistance of a whim we may be enabled to sink great part of the way to the 10 fm. level, or 10 fms. below the adit, by the time the engine is erected; the engine-iouse is progressing favourably, and if the weather is favourable for the masons to work, I hope it will be completed by the end of this month. We took down our silver lode on the 11th instant, and broke about 7 cwts. of silver ore of moderate quality. We have lengthened and timbered Baring's shaft to the 5 fm. level, and are now clearing up and lengthening the same below the 5 fm. level. And are row clearing up and lengthening the same below the 5 fm. level. And are row clearing up and lengthening the same below the 5 fm. level. A law not received an offer for the parcel of silver ore mentioned in my last, but expect to in the course of a day or two, when I will give you all particulars.

WHEAL MARY EMMA.—The lode in the deep adit level, driving west, is 3 ft. wide, composed of capel, elvan, peach, spar, and tin, is large, and has altegether a better appearance than has been the case for some time past. No alteration in the other parts of the mine.

las 3 ft. wide, composed of capes, events, and a part of the mine.

WHEAL PENHALE.—Since my last report we have made fair progress in driving the 40 fm. level end south from the engine-shaft towards the caunter winze, and in this driving have met with a very pleasing improvement in the cutting of a rich branch of lead and copper over running parallel with the old lode; the ground in this end is much as it has been for some time past, and from the dialing yeaterday (June 6) of this end, and the north end from the winze, we find we have about 6 ft. more to drive, besides a trifling cross-cut, to bring these ends in conjunction, all of which I hope to see completed in the coming week. As soon as this is done, we shall immediately commence sinking the caunter winze from the 4 to the 50 fm. level; it will be borne in mind from recent reports that the lode in this winze, though very rich throughout from the 30 to the 40 fm. level, was at no pointso large and rich as it is in the very bottom; and should it continue so 10 fms. deeper, of which we have not the slightest doubt, it will ay open ore ground of no small amount, and leave no difficulty in gotting the mine to pay her own expenses, and a good profit. We have not done much in driving south since last report from the winze, but as far as we have yet gone in this direction the lode shows and the staff of the staff of the distance we have driven on this lode we find it better in the bottom of the levels than in the back, which adds greatly to our prospects in deeper levels. We have one driving south-west from the engine-shaft in the 30 fathom level, on what appeared at first to be only a branch, but in opening on it about 2 fms., which we have now done, we find a lode about 2 ft. wide, of exceedingly good appearances, producing very fine stones of lead and copper; and this lode, as it gets apart from the elvan which is about the engine-shaft, will, no doubt, become more productive of ore, and, in every probability, will be another very important point in the mine;

WHEAL RUSSELL.—The sinking of the engine-shart is going involutions of down 6 fms. below the 48 fm. level. Two branches have been cut in the last 6 ft. sinking 5 in. wide, containing copper ore, and underlaying towards the lode. In the 48 fm. level, driving east on the south lode, the cross-course has been intersected, with a good branch of copper ore in it on turning to the right, which evidently shows the heave to be in that direction. In the end driving east, on the north lode, in this level, we have also me with a cross-course, having precisely the same effects on it as that of the south lode. We continue driving the 16 south on the cross-course, and scattered stones of copper ore are constantly being met with. The pitches, on the whole, are looking equally as well as last reported. We have about 70 tons of ore, which are now in course of sampling.

as last reported. We have about 70 tons of ore, which are now in course of sampling.

WHEAL RUTH (SHEEPSTOR).—I have just come from underground, and
find the lode in the 12 fm. level going east to se greatly improved within the past two
days, and is now worth upwards of 15 l, per fm. for tin, and looks well for a still greater
improvement, as the lode is much richer in the bottom than in the back, but as we open
on its course it appears the tin is raising up in the level. We have now a moderate pile
of tinstiff at surface, consequently I purpose to put the additional three heads of stamps
to work to-morrow. During the past week our stamps have turned out some good work,
and are constantly going by day and night, and in a little time we shall have a good
parcel of tin for the market.

parcel of the for the market.

June 10.—We have a good lode in the 12 fm. level, especially towards the bottom of the end; some fine rich work has been brought up this morning; we are leaving some fair tinstaff in the back of the level as we drive on. About 6 fathoms in length has been opened on the course of the lode since we can tin, which will pay for stoping, and increase our returns considerably. We have six heads of stamps going.

crease our returns considerably. We have six heads of stamps going.

WHEAL VENTON.—Our north end continues to improve; we have lead thinly scattered through 2 ft. of its width, but it is still improving, and the ground, which has been rather hard, is much easier. The slift is going down vigorously, the ground moderate, and the price 13t, per fm. In the south ground we have not yet cut the lode, but hope to have it shortly, and to have it good, as the stratum is very congenial.

WHEAL ZION.—Our shaft is now down 10 fms. The next 2 fathoms are taken at 5t, 10s, per fm., which is a reduction of 30s, per fm., the ground being softer. The shallow draining add it is holed, relieving the shaft of water, and giving it a valuable supply of air. The men who worked at the draining add are now placed with those in the second add, to hasten it home, and drain the champion lode 12 fms. 4 it. at the shaft. Last Saturday 1 marked out the spot for the main shaft 30 fms. west of the present one, and which will be found, when sunk, on the junction of the two greet lodes. At the junction the adit will be about 20 fathoms below the surface. The new work will be done without any addition to the present number of hands, unless any unforeseen circumstances occur.

## FOREIGN MINES.

ALTEN MINING ASSOCIATION .- [ Dated May 23]

Raipas.—The stopes west of Monk's shaft continue poor, but promising. The winze nder the 20 (No. 11), is rather improved, and a small quantity of rich purple ore has been codneed. We have resumed operations on the lode passed through in the 20, and from seent promising indications we have every reason to expect better success. The retrue continue small, and of a general low quality, but as soon as the disappearance of a snow admits of our resuming the surface operations, we expect to obtain much more vourable results.

favourable results.

United Mines.—The prospects under the 40 continue favourable—lode large, and contains some good ore, but the operations are somewhat impeded by melting of the snow.

Old Mine.—The prospects are still promising, and the lode is large in Slungi's sink, yielding fair returns, but not rich. The middle sink holds out good prospects, with reyielding mir returns. We intend next week to require tribute on the possible of while remnerative returns. We intend next week to require tribute operations on the new lodes at the surface, and hope to be more successful.

\*\*Michell's.\*\*—The workings have latterly been confined to tribute on the new lode, south of the lobby, from which small but satisfactory returns have been made. At this mine, during the inst eight days, we have been much troubled with water, raising from the thaw.

LINARES MINES.—The following has been received from Mr. H. Thomas

LINARES MINES.—The following has been received from Mr. H. Thomas:

Linarez, Mey 31.—The engine-shaft sinking under the 31 fm. level has been deepened
during the month 2 fms. 4 ft. 3 in., and is now below the level 4 fms. 3 ft. 9 in., proceeding satisfactorily. The cross-cut in the 55, towards the engine-shaft, is driven 1 fm. If.
I fn.; the east end, 2 fms. 4 ft. 3 in., during which it has termed out 7 or 5 toms of cre
a fathom; it is now worth 6 tons. The water is not drained by this end from the Tanteo,
hut may be promptly expected, the bevel west is driven 1 fm. 0 ft. 3 in., and opening on
a lode worth 2 tons a fathom, with very favourable features. The 45 has been driven
west of San Juan shaft. 7 fms. 2 ft. 4 fm., and is now re-set for two varus at 10 reals per
vara; east of the slash is at present poor; and, feating that we have not the same part
of the lode which we shad so productive immediately over this end, we have set the Mento
cross-cut 2 varas for further proof, at 350 reals per vara. Shaw's shaft, sinking under
the 45, has been despended during the month 3 wars 2 ft. 9 in.—18 total depth under the
level being 18 varas t ft. 7 in.; the lode is unproductive. Our other tate sork bargains
refer to the clearing of the old workings east of Shaw's shaft, in the 31, which we expect
veril and of another tribute bargain. The pitch set fast month in the back of the said
very, on ground feft univercegit by the cit adventurers, is turning out very voil. The
tribute pickles are re-see for the cosming month at about the same rate of tribute. January stock account above a shipment of 75 tens days, part feftens.

I subjoin a new account—viz. : the first weakly account of produce and loading of piglead—on which I have to offer the festivwing explanations, in order to determine, as far as

it is at present practicable, the regular daily yield of the two reverb present having the fires in at Poso Ancho. There were delivered, pre-smelting, 490 arrobas of ore to the furnaces for the purpose of making for some days a portion of each charge would be absorbed in further aces for the parpose of making would be absorbed in further showing a diminishing loss or have absorbed all that

auppose we can hardly yet see that they have absorbed all that they require.

Funnace No. I.

May Arrobas. Pigs. Arrobas. Percent. Arrob. Pigs. Arrobas. Per et.

96 240 38 113-13, about 47 240 35 148-8, about 60, 27 240 35 148-16 60, 27 240 35 148-16 60, 27 240 35 148-16 60, 27 240 37 149-16 60, 27 240 37 149-16 60, 27 240 37 149-16 60, 27 240 37 149-16 60, 27 240 39 153-15 64 29 240 39 155-15 64 29 240 39 155-15 66, 240 39 153-15 64 29 240 39 155-15 66, 240 39 153-15 66, 240 39 153-15 66, 240 39 153-15 60, 27 240 39 150-15 60, 27 240 39 150-15 66, 240 39 150-15 67, 27 240 39 150-15 66, 240 39 150-15 67, 27 240 39 150-15 60, 27 240 39 150-15 66, 240 39 150-15 67, 27 240 39 150-15 60, 27 240 39

IMPERIAL BRAZILIAN MINES-[Received June 9.]

April 26.—About four hat-caps of work for the washing-house have been obtained from a small part of the vein which was remaining near Hocheider's shaft. We have taken some middling samples from the south vein near this shaft, about 15 feet south of the old workings, on which some trials were formerly made, and as the 14 fm. level is now ladd open to the surface, I think it would be advisable to give it further trial by driving two levels east and west; the expense will be trifling. A part of the Joinville stamps has been completed, and 12 heads have been put to work; we hope to put six more during next week. The remaining portion of the tram-road to the stamps have been laid; it is a wooden one.

been completed, and 12 nears have been pas to work, we note to pass have been laid; it is a wooden one.

April 28.—Owing to the recent breakage of surface rods at Walker's in two different places and times, and the milliar of the iron wheel again breaking saunder, thereby inductions and times, and the milliar of the iron wheel again breaking saunder, thereby inducting all our principal underground operations, have prevented our measuring the work and sending you the plans and sections. We trust the whole will be put in order again, and the water forked, so as to forward you the documents required. In diamater, again, and the water forked, so as to forward you the documents required. In diamater, alternative but to put one of these in the place of the broken one, we deemed it advisable, on account of its being undersize and no dependence to be put on its strength (being manufactured, as we suppose, in this country), to place the load equally on both milliars, by fixing the wheel in what is called a cradle, which we trust will hereafter work without any interruption beyond the usual stoppage to change bucket, &c. Nothing has been done in the stopes in the bottom of the 14 fm. level on the big pump velo. The mon bave since cut the vein in the 24, and are now rising on it to unwater the ground above, and make advantages for stoping; it produces stuff for the atamps only. In driving 4 me, below the 14 fm. level, north of Thomas's shaft, the ground has been very hard, and owing regularly. The vein in the bottom of Thomas's shaft has given a little work for the washing-house, and is yielding stuff for the stamps, but the ground is heavy and dangerous, requiring great care and attenion. Gibson's shaft has been sunk sufficiently to enable us to put in a set below the bearers and cistern; ground relevable surveined to the washing-house, and its please of the bearers and cistern; ground relevable for the stamps, but the ground is heavy and dangerous, requiring great care and attenion. Gibson's shaft has been sunk sufficie

| Gold Report | 

NATIONAL BRAZILIAN MINES-[Received June 9.]

April 28.—We beg to hand you the mining report, and we feel confident you will be pleased at the improved aspect of affairs. The washing up on the 26th inst. was the best obtained for upwards of a twelvemonth, and we expect better things are not far distant. Produce, April 25, 26, and 28—Mks. 5 4 0 23.

Cuiaba, April 25.—In two posts from the present I confidently expect that I shall adies the opening of the communication between the two levels, and the consequent development of the place which is to furnish us with a large supply of stone, and hence a numerative produce.

Total produce from both mines for the month ...... Mks. 32 0 6 22

ST. JOHN DEL REY MINES .- [Received June 9.] 

Nett oltavas ..... 27,838, at 7s, 8d. .... 10671 4 8 Profit ..... £4633 13 6

The produce for April can hardly be expected to approximate to the produce of March; but, on the other hand, if expect the cost will be considerably smaller, and the products of March; but, on the other hand, if expect the cost will be considerably smaller, and the products result, probably, not much inferior.

Arrastres.—Of the regos preparing for the service of these proposed erections, about 219 fms. of the garden watercourse have been completed; meanwhile I am actively preparing to put up two arrastres outside of the amalgamation-house, to be worked by that wheel, and to be supplied solely by the sand of that locality, which we have ascertained to be much richer than that generally coming from the stamps.

April 17.—Gold extracted to date, 3214 olitavas, from 564\*5 cubic feet of sand (result of 10 days stamping), yielding 165 olts, per cubic feet. Stamps working 16 days, areage 1179 heads. The supply of stone from the mine has continued without mach

rage 1179 heads. The supply of stone from the mine has continued without much variation; that is to say, though very good, considering our force, still far from supplying the greatly increased demands of the stamps.

April 28.—Gold extracted to date, 18,167 oliavas, from 1132:39 cable feet of sand (result of 20 days' stamping, 16°40 dist, per cubic loots. Stamps working 22 days, average 118-71 heads. The supply of stone from the mine continues much the same the recent holidays, and the consequent absence of our native bereix, having prevented us, as yet, from feeling much relief from the overtime boring. In a few days, however, I hope we may be enabled to make a material diminution in the quantity to be brought in from the refuse heap.

ROYAL SANTIAGO MINING COMPANY .- [Received June 9.]

ROYAL SANTIAGO MINING COMPANY.—[Received June 9.]

Cobrs. April 25.—The lode in Goodhope shaft (Angelita) remains the same, producing fully 2 tons of grey ore and green carbonate of copper per fie. In Perceverancia the adit level looks better, and a decided improvement has taken pasce in the 10: all time ledestart will now be reserved for dressing. Taylor's shaft has a good atons of ore. The 22 sectional continues very wet and poor, water not much lowered under the level. In Geldsmid's shaft the gossan is wearing out: the lode contains more friable quarts, with spots of ore, and down to water, which will delay progress.

Mey 2.—At Thompson's shaft the water is lowered to 4 fms. under the 22; the shaft being sunk on the underlie of the lode, and being of very small dimensions, we have had to drop the bucket-lift by dagrees. Yesterday we drew up the portions of the old lift left in the shaft, and lowered the present for the third time as far as it would get another drop of 18 feet will reach the bottom of the shaft and driving the 32 will have our first attention. The 22 west is not so wet in the end—the water principally comes from the back of the lovel, a fittle behind; the lode is small and poor—the ground caster from driving; the 22 cast has not improved—if contains a little ore; the lode split up in

branches. In the 10 fm. level, now 5 fms. west of Taylor's shaft, the lode has been improving for several fathoms past; it is now 44 ft. wide, 14 ft. is compact copper pyrites, and another foot mixed with mundle: we estimate \$ tons of ore already broken, and 5 tons a fm. as the present produce. The ore is rising westwards; but is not yet to the back of the level. In Taylor's shaft, 5 fms. under the 10, is a similar description of ore; it is not yet quite across the shaft; we expect, however, to find it so shortly. In the adit levels there is no change worth sentoning. We have commenced wisses from both adits to sink to the levels below them. In Goldsmid's shaft is a jarge lode, compact principally of friable quarts, with stones of ore occasionally; hardic water in the shaft, we think it better to postpone sinking until the levels east from Thompson's approach near enough to draw off the water.

Angelies.—Descuberita shaft is not yet completed to oottom, owing to the winze below adit being somewhat out of the perpendicular, and requiring a 3-feet stope to be taken down on the south side. We are now fixing footway under the adit level. Goodhope shaft yields 2 tons of gray ore per fathous a since we discovered the ore it has been sunk 26 feet—lode averages 3 feet wides, the orey part from 6 in, to 2 ft., yielding altogether about 10 tons of ore.—Stock of ore on the 30th April, 340 tons.

UNITED MEXECAN MINING ASSOCIATION:—

#### UNITED MEXICAN MINING ASSOCIATION :-

UNITED MEXICAN MINING ASSOCIATION:—

Gusnarmas, April 28.—RAYAS.—The usual monthly report on the mines generally, by Mr. Paywam, is herewith enclosed. The changeable character of Rayas has been fully materianed, inasmuch as in place of yielding an increased produce, as anticipated in the salt report, it has on the contrary, somewhat declined. The intervention of the Easter boildays has also contributed to lessen the extraction. The decline in buscones' ore is gradual, and has nearly reached the point at which it will be necessary to discontinue this class of workmen. The returns for the month of March were \$22,001 17.

ALDAYA.—The level of Refuglo has been continued throughout the month, without developing anything of importance, while the character of the rock is favourable, both in class and appearance. It is to be hoped that, by the continuance of this work, with occasional tests of the veri by cross-cuts at certain intervals, some discovery may occur, which will repay the association for the labour and money already bestowed upon the speculation.

which will repay the association for the labour and money already bestowed upon the specialtion.

PROMONYOMIO.—On the 3d inst. I formally advised them of the relinquishment of the mine by the association, and at the expiration of the two months stipulated in the contract of "Ario," shall deliver over the same.

JESUS MARIA T JOSE.—Although the same indications of a near approach to the vein continued to manifest themselves in the cross-cut of San Ignacio, we have not as yet attained the desirable end of cutting it. With the object of testing the quality of a small vein, which was passed through in going down in the shalf, a new cross cut, called San Bleardo, has been commenced, which requires driving only some 10 varas from the present point to accomplish the end in view. It is, therefore, to be expected that each week may produce some interesting manifestations in respect to this mine.

MINA GRANDE.—The cross-cuts of La Bomba and San Jose into the principal vein have not in the month produced any decided results, further than that of the last week. Some stones of good ore have presented themselves in the latter work, without as yet assuming the month has slightly exceeded that of the previous one.

TRINIDAD.—The work of ventilation between the mine and the shaft being absolutely necessary, it has been determined to abandon all other workings until this is completed, by which a great saving of time and exponse will be effected.—J. H. GLASS.

Report on the State of the Workings in the Mines of the United Mexican Mining Association.

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Report on the State of the Workings in the Mines of the United Mexican Mining Association.

Rayas—Buscones.—The only change to be remarked here is a continued gradual decline in the produce and sales, owing to the exhausted state of these portions in which they are employed.

Frente de Santo Toribio.—This level has advanced to the south-east 6-95 varas, and the prospects for ore in the end has declined. The trial by pozo, which was mentioned last month as being made on the ore cut through, was prosecuted to the depth of 6-38 varas, and there suspended, as the ore gave out. Regarding the workings of San Diego and Santa Isabel, we have only to repeat what was said last month. The vein is wide, but much ramified, and therefore the ore is obtained at much expense; the average lev of ore in these workings is also inferior to that of other workings to the north-west, and this is true both as to silver and gold. In the workings of Santo Toribio Pozo, San Crecenc o, and San Cristobel, trails of the vein are still being made, and a little good ore is obtained. The Contra Clelo, Frente de La Purisima, and Frente de Jesus, continue producing a fair proportion of ore of an improved ley. There has been no change in other portions of these workings worth mentioning. Ore is being obtained in small quantities in several points from the sides or walls of the older workings, but this source of produce must soon be arhausted. The average number of workinen employed during the month has been 70 barmen by day and night, and the produce of dressed or remitted to the haciendas amounts to 3050 cargas.

Aldana.—The level to the north-west, del Refugio, has advanced 12-20 varas without any further changes than those mentioned last month. This work, it will be recollected, occupies the portion of the vein new the upper source of the substantial of the vein by a short cross-cut, but without discontinuing the level.

Miya De La Tarninda.—The cross-cut of San Ignacio has advanced 2-77 varas, and is now suspended. This work is on a level wit

# THE WORTHING MINES (SOUTH AUSTRALIA):-

Extract of a private letter from Adelaide, dated 3d March: —"The writer also visit the Worthing Mines has letting. The appearances at the water-wheel shaft are good also in the isouth end driving at the middle guily. The engine-house is actively pressing, and we trust when the engine is at work the results will be found to answer our expectations. A box of samples has been sent by the Taglioni to the directors of Worthing Mining Company, sailed on the 1st inst.

## MINING NOTABILIA.

DEVON CONSOLS NORTH.—A great improvement has taken place on the north lode, where a shaft is now sinking; the lode is 3 ft. wide, composed of gossau, prian, spar, and mundic, and holds out great promise to the adventurers. The shaft on the south lode is nearly 5 fms. deep; the lode is 5 ft. wide and compact, composed of spar, mundic, prian, and gossan, and these lodes have every appearance of making an abundance of ore in depth. The north lode varies in size in different places from 3 to 10 ft. wide, which is now open for any one's inspection at Wheal Providence, where it is 10 ft. wide, and thickly impregnated with copper ore of a good quality.

impregnated with copper ore of a good quality.

THE FOREST MINE (Illogan) has lately been set to work by Mr. John Rule, of Camborne, in connection with other gentlemen of that neighbourhood. The position of the sett is exceedingly favourable; it adjoins that of South Wheal Frances, and the lode, whose very promising appearance has attracted the attion of every experienced miner who has seen it, gives indications of early produce. We understand that the Messrs. Taylor have lately taken a large interest in this mine, and that an energetic trial is likely ts be made immediately.

DHUNDOE MINE, in the county of Cork, has been purchased by a party in town, with a view of prosecuting it either on his own account, or of forming a company to do so. It worked from 1834 to 1847, and fell into the lord's hands, owing to the decease of the principal adventurer—6000L having been expended in working and erections. It is now held under a new lease for 32 years at 1-16th dues, and a moderate outlay is calculated to bring a large quantity of good quality copper ore and silver-lead into the market, and repay the whole outlay that has been made.

LLANNY MOWDDWY MINING DISTRICT.—Operations that are likely to open

outlay that has been made.

Lianny Mowdowy Mining District.—Operations that are likely to open up a wide field for future enterprise have commenced here. The Galt-y-Maen Mine is in work by a party of Cornish miners, under the superintendence of Captain Champion, so of Captain Champion, of East Wheal Rose, Cornwall; the Great Cowarch Mine, also by Cornish miners, under the management of Adam Murray, Esq. During the past week a new mine has been discovered; it contains four fine lodes, one of them is said to be a champion lode, and contains mineral up to the surface—it is considered to be copper, but impregnated with both lead and copper. It is to be hoped now that men of practical mining and angineering experience are at work in the district, this long neglected, though valuable, mineral property will be thoroughly explored, and brought before the public.

before the public.

MACCLESTIELD COFFER MINES.—The operations here are being pursued with spirit by the adventurers who have lately acquired the property, a third lode having been discovered, 8 to 9 feet big, about 600 fms. west from the present workings, and an adit being driven to intersect it at 25 fms. deep, which will be at a distance of 25 to 80 fms., and is expected to effect that object in eight or ten weeks, the average cost of driving being contemplated at 40s. to 45s. per fathom. The specimens or portions of the lode taken from a depth of 10 ft. are highly promising, with a kindly gossan, good prills, and an admixture of ors, which would appear to contain silver. A wheel of 24-ft. diameter is upon the mine, and another of 40 feet has been contracted for, there being an ample supply of water. The depth of the mine is about 32 fms. The extreme distance of the lodes may be taken as 34 fms., the north lode being 20 fms. north of the mindile lode, which again is 14 fms. distant from that south. It will, therefore, be apparent that by driving a cross cut in the 32 fm. level from the south to the north lode, intersecting that intermediate, would be about 35 fms.

driving, which at a moderate-priced ground would not require more than three or four months to effect the object, at a cost of about 100%. The nature of the ore obtained is of good quality pyrites, with native copper, and the goesan from the shallow levels holds out promise. The ground is said to be easy, with a kindly killes. The present workings are mainly confined to driving a cross-cut to take the lode, excepting surface operations.

#### ACCIDENTS.

Accidents.

As fail Falal Boiler Explosion.—On Saturday morning last, shortly after seven o'clock one of the most dreadfal boiler explosions that it has been our duty to describe occurred at the Starveall Colliery, Kingawood, Gloucesterslive. It appears that the proprietor, Mr. Brain, had determined on substituting a new boiler for the old one, which had been at work a very considerable length of time. The boiler was prepared, the engine stopped working, and the men and boys (25 in number) had begun to pull away the brickwork, for the purpose of removal, when the boiler, weighing 7 tons, exploded—flow like a rocket 70 feet into the sir, and falling on a stack 50 feet high, divided—one portion falling on the east and the other on the west side of the engine-house; the masonry and brickwork being shattered in all directions, and the whole scene a heap of ruins. Seven individuals were either killed or died shortly afterwards, and eight others are dreadfully injured, and lie in a more or less precarious state. On the coroner's inquest, it appeared from the evidence that the accident was occasioned by want of care and attention on the part of John Burchell, the engineer. On the morning in question he acknowledged there was very little water in the boiler, and Mr. Brain ordered him half-an-hour before the explosion to blow off his steam, and let the men who were down the pit come up the other shaft; this he neglected, and even said to Samuel Oaborne, one of the men, that "the water would be off the bottom in two hours, when she would blow up." Mr. Bush, an engineer who was present, attributed the explosion to the injection pump throwing water on a highly-heated surface, and andenly generating a great quantity of steam: the partial removal of the masonry had nothing to do with it. The jury, after a short con a highly-heated surface, and addenly generating a great quantity of steam is not all highly-heated surface, and addenly generating a great quantity of steam is the partial removal of the masonry had nothing to do

search in the sump for the body of Billington.

Fonlypridd.—Another explosion, of rather a serious nature, has occurred in the pit of Mr. John Caivert, by which two poor men were seriously burnt, besides considerable damage being done to the pit.

Sicansea.—Mary Williams, aged 17, was picking up waste coal at the Cwm level of the Swansea Coal Company, when a waggon, being tipped, got beyond the tram-plate and fell over, stricking her on the side and burying her in rabbish. She died in 24 hours. Ystalygra.—Thomas Jenkins, aged 13, was killed at the Wern Colliery by falling with the waggon down the shaft; and although the rope was attached, and the break put on, when brought up it was found that a bolt had been forced into his throat, from the effects of which he died.

Sun derland.—Wm. Cailly, aged nine, was run over and billed.

put on, when brought up it was found that a bolt had been forced into his throat, from the effects of which he died.

Sun derland.—Wm. Cally, agod nine, was run over and killed at the Kelloe Colliery.

Burham.—R. Foster, aged 12, was killed by the trans at Castle Eden Colliery. the Dudley.—W. Hanbury was killed by a fall of coal at Mills & Co.'s pits, Rowley Regis.

Wanneylit.—A serious explosion took place at Thomas's colliery, by which three men were very dreadfully burnt, and another much injured. The accident occurred in consequence of one of the men laving gone with a naked candle to an old working, where he had some tools.

Dovelois.—Richard Lewis was killed by a stone falling on him in the mine work.

Ashon.—As four boys were descending a shaft at Haydock Colliery, a large stone fel from the side of the shaft, broke one boy sharm in two places, and injured another of them.

St. Helen's.—Thomas Crickney was killed at Messrs. Caldwell and Thompson's Ger rard's-bridge Colliery, by falling from the basket, a distance of 84 yards, down the shaft.

Wigan.—James Taylor was killed at Messrs. Rylands's Colliery, Gidlow-lane, by a brick falling down the shaft upon his head.

Wast Basks.—As some miners were clearing up an old adlt, which had not been need

falling down the shaft upon his head.

West Basset.—As some miners were clearing up an old adit, which had not been used for 11 years, they found at the bottom of an old shaft the remains of a human body, which proved to be that of John Waters, a poor insane miner, who wandered from his home on the 19th December last, and had not been seen since. He could only be identified by his shoes.

Pelberrou.—A young man, named Hooper, received a severe crush in his bowels and kidneys by one of the waggons, which were drawing coals from Trevaunance pier to the mines, coming in contact with the dram on which the draw-rope is attached.

# Current Prices of Metals, Stocks, & Shares.

M.	ETAL MARKET London, June 13, 1851.
Bar, bolt, & square, London £5 2 6-5-10 Nail rods 6 2 6-6-10 Hoops 7 0 0-7 10 Shoets (singles) 7 1 2 6-8 5 Bars, at Cardiff & Newport 4 10 0-4 15 Refined metal, Wales* 3 0 0-3 5 Do. anthrackie* 3 10 0 Pigs in Wales 3 10 0 Do. No. 1, Clyde net cash 1 19 6-2 1 Blewitt's Patent Refined Iron for bars, rails, &c., free on board at Newport* Do, do., for in-plates, boiler 7 plates, &c., ditto 4 10 9 Stiriling's Patent 7 in Glasgow 2 15 0 Toughened Pigs in Wales 3 10-3 15 Staffordshire bars, at the works 5 5 0-6 0	Tile
Rails	Refined
Swedish	Straits

Sneets, sneathing, & boils, p. ib. 0 0 94
Trough cake .......per ton 84 0 0 Quoksilvero .....per lbn 21 0 0
Trough ca, 6 months, or 24 per cent. dis.; b, ditto; c, ditto; d, 6 months, or 3 per dis.; t, 6 months, or 3 per cent. dis.; t, ditto; c, ditto; b, ditto; ditto; defined cash; n, 3 months, or 14 p. c. dis.; c, ditto; k, net cash; n, 3 months, or 14 p. c. dis.; c, ditto; d

Welsh Bars without change, and but little enquired for.

Scorch Pros have been very steady, and a fair business done at our quotation.

Lead has been rather more enquired for.

Tin.—Since the Dutch Trading Company's declaration that their ensuing sale of tin would consist of 60,396 slabs at Austerdam, and 50,875 slabs at Rotterdam: total, 111,181 slabs, the market has been firmer, and some transactions have taken place in Banca at 80s., three months prompt; 200 slabs of certified Straits, in public sale to-day, were withdrawn at 84s., being considerably above the value.

Tin.-Plates without change.

Spelter without transaction; this week's market flat, at 14i. 15s.

Copper moves off steadily.

GLASGOW, June 12.—The very large shipments of Scotch pig-iron during this ye owing to the prevailing low prices, and the facilities now afforded of introducing it in new markets at cheap rates, have caused a large reduction in the stocks here. The peant low price, about 5s, per ton below the lowest annual average price of the last severars, still causes a large demand, and there can be no doubt that Scotch pig-iron taking the place of English and Weish to a great extent; and the more it is known better it will be appreciated. A considerable business has been done this week at 39s. to 49s. per ton, nett cash, for mixed Nos. good brands, free on board here. Gartsher may be quoted at 40s. to 40s. 6d.

-Peering through the gloom which has of late beset our market there is the encouraging feature of a strong disposition to purchase into solid mines, whether paying dividends or otherwise firmly-established safe concerns. In the former it is difficult to purchase, except at advanced rates, and the business, therefore, is limited; but in the latter considerable transactions have taken place; in many cases at advanced prices—the number of shares so changing hands being larger than usual. As before in-timated, the flush of capital emanating from the payment of the July dividends will give a further stimulus to mining share transactions; and, in all probability, capitalists offering at this moment will have no reason to regret their outlay. In the lower grades of mines, absolute inaction prevails.

regret their outlay. In the lower grades of mines, absolute inaction prevails. There has been but little variation in the Metal Market.—The demand for Copper is steady.—Lead is somewhat brisker.—The Dutch Trading Company has advertised a public sale of 111,181 slabs banca tin, to be held at Amsterdam, on the 5th August, of which 50,875 slabs are lying at Rotterdam, and the rest at Amsterdam: the lots will consist of 1000 slabs each. The direction has at the same time given an assurance that no other tin will be brought to market before the middle of July, 1852, either in Holland by the trading company, or in Java by the factory, and that the shipments from India and China during the same space of time will not exceed 10,000 piculs.—Other metals stationary;

The price of gold in bars (standard) was 3l. 17a. 9d. per oz.; silver in ars ditto, 5s. 0fd. per oz.; and new dollars, 4s. 11\frac{1}{2}d. per oz.

Messrs. Powles Brothers and Co. have sold to the Sheffield Smelting ompany 9 cwts. of sulphuret of lead and concentrated slags, at 472l. per or; and to Sims, Willyams, Nevill, and Co., 28 cwts. of cupel stuff, at

318l. per ton.

The Mill Pool Mine sold three parcels of black tin—at 47l., 44l. 10s.,

The Mill Pool Mine soid three parcels of lead ore—64 tons at 22l, 1s., and 43l, 10s. per ton.

Wheal Mary Ann sold two parcels of lead ore—64 tons at 22l, 1s., and 46 tons at 8l. 4s. 6d. per ton.

Wheal Trescoll sold three parcels of black tin, which realised 50l. 9s. 1d.

A sale of tin from Great Polgooth, raised during the first 24 days of the new company's operations (from the 5th to 30th April), has just taken place, and realised 1190l. 11s. 11d., giving a profit over the working costs

Merllyn Mines sold 30 tons of lead for May, at 111. 17s. 6d. per to

realising 354. 5s.

Pentire Glaze Mine sold 44 tons of lead ore to the Tamar Smelting Company at 84. 13s. 6d. per ton on the 7th inst.

The foreign arrivals at Swansea include—from Cuba, 460 tons of copper

The foreign arrivals at Swansea include—from Cuba, 460 tons of copper ore, 280 tons of regulus, and 278 bags of silver ore.

The arrivals in London include—from Hamburgh, 50 casks of plumbago; Gottenburg, 3652 bars of iron; Rouen, 90 tons of spelter; Stettin, 9134 plates of spelter; Bremen, 49 cs. 1 cask of old metal; Adelaide, 2188 cakes, 8229 tiles, 3558 ingots of copper, and 2004 bags of copper ore; Trieste, 101 cs. of quicksilver; Coquimbo, 61,207 ingots of copper, 615 bags of argent ore; Gulf of Conchagna, 2 boxes and 164 barrels of silver ore. Gergenti, 260 tons of brimstone; Antwerp, 8 cases of spelter, 32 casks of nails; Seville, 40 tons of lead ore; Singapore, 2374 slabs of tin, and 164 boxes of antimony.

At Liverpool—from Stockholm, 7802 bars of iron; Antwerp, 52 cases, 10 barrels of zinc; Singapore, 61 slabs of tin; Bilboa, 10 cases iron hatchets. At Hull—from Hamburg, 4204 plates of spelter, and 5 casks of nickel; Rotterdam, 10 casks of manganese, and 12 casks of plumbago; Gottenburg, 1330 bars of iron.

burg, 1330 bars of iron.

Durg, 1330 bars of iron.

The Great Work accounts for Jan., Feb., and March, showed—Balance from last account, 539l. 5s. 7d.; Ores and materials sold, 3204l. 14s. 10d. = 3747l. 0s. 5d.—Mine cost and merchants' bills, 2470l. 6s. 6d.; dividend of 7l. 10s. per share (892l. 10s.): leaves balance in hand, 384l. 3s. 11d. At Wheal Seton meeting, on Monday, the accounts for March and April showed—Balance from last account, 243l. 3s. 6d.; ores sold (less dues), 3182l. 11s. 9d. = 3425l. 15s. 3d.—Costs and merchants' bills, 2876l. 0s. 2d.: leaving helping in favour of advanturers. 549l. 15s. 41.

At wheat Seth metally on a state of the stat

the costs were 7903. 9s. 10d.: leaving a pront of 3323s. 17s. 0s. Only dividends were paid in the year of 21. 10s. each per share, and amounting in the whole to 3840. Two dividends have since been made of 21. 10s. each. The report stated that the quantity of ore discovered in 1850 exceeded by 1400 tons that extracted from the mine, and represented the mine generally as being in a very prosperous condition.

At the Devon Consols North first two-monthly meeting, on Thursday the accounts were examined and passed, showing—Call, 2500.—By cest to date, 122. 15s.: leaving balance in hand, 2377. 5s. The report stated that the surface operations had been confined to laying open the backs of the lodes, and preparing for sinking the main shaft and the erection of a water-wheel of 50-ft. dimeter, for which the water-power is ample. The adit is now being driven on the north lode, and the shaft sunk thereon, for the purpose of communicating with the same; this lode is looking well. On the south lode, the water had been drawn from an old shaft about 5 fms. deep; the lode is 4 ft. wide, with a good wall; it is expected this lode will be intersected at 40 fms. from the surface by the shaft now proposed as the main one; and, being contiguous to the boundary of the Devon Consols sett, the committee have great expectations of finding the lode at that depth good and productive. The balance in hand, it is considered, will adequately work the mine, and provide the necessary machinery for doing so for upwards of 18 months, in which time the lodes may be fully developed, and their mineral resources explored. No call will be required for that period under any circumstances; and it is confidently believed that none will at any time be necessary. Some further authenticated information will be found under Mining Notabilis.

At the Derwent Mines meeting, on the 5th inst., the directors' report stated that all the debts owing the miners and the merchans for supplies had been liquidated, and that they had now reached the nearest approach to s

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fore the returns will be proportionately augmented, the average tribute being reduced to 9s. 6d. in 14 for lead only.

The Lelant Consols accounts for Jan., Feb., and March, showed—Balance from last account, 706. 7. 8d.; mine cost and merchants' bills, 521. 13s. 5d.—2239. 1s. 1d.—Ores sold, 507. 19s.; sandries, 353. 2s. 19s. 5d. Call in March, 1024.1: leaves balance against adventurers, 673. 19s. 5d. A call of 35, per share was made.

The Ding Dong accounts for three months ending March show—Mincost and merchants' bills, 1984. 5s. 3d.—Ores sold, 1831. 13s.; sundries 34, 9s. 9d.: leaving loss on the three months, 557. 2s. 6d.

At East Tolgus meeting, on the 4th inst, the accounts showed—Balance last account, 127. 12s. 5d.; min cost for March and April, 14d. 10s. 3d. =272. 2s. 8d.—By third call, 98d: leaves balance in hand to next account, 1117. 17s. 4d. The progress made in exploring the lodes in the western part of the settle being satisfactory, and such as to warrant the erection of a steam-engine to prosecute them in depth, it was resolved that one should be procured immediately the agents were propared to fix on the proper place for its erection.

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the office.

By the East Wheal George report, the mine appears to be progressing satisfactorily; the May ores sampled 22 tons 3 cwts., of good quality.

At West Phomix Mine, Liskeard, the engine went to work satisfactorily on Monday last, agreeably to appointment, and, notwithstanding incessant rain, a vast concourse of people attended to witness her first attempt. All present concurred in wishing the mine as successful as her rich neighbour, the Phomix, and of which there remains but little doubt, inasmuch as the lode is the champion lode of the county, and 12 feet wide, and the same lode as the Phomix. The shaft will commence to be sunk on Monday next.

as the Phenix. The shaft will commence to be sunk on Monday next.

By the latest information from Cardiganshire, we find most of the minos
progressing satisfactorily. At Bwlch Consols, the ore ground is continually progressing satisfactorily. At Bwlch Consols, the ore ground is continually increasing, and the returns must naturally soon increase also. At Caegynon, the machinery is at work, and the mine has commenced with a profit of 50L monthly; the course of ore is excellent, and the levels are extending in profitable ore ground. At Bronfloyd, the levels are full of lead, and the ends opening in masses of ore. Daren goes on steadily, and will be one of the best silver-lead mines in the district. At Cwm Daren, they are raising excellent silver-lead ore and copper from the different bargains: the machinery will be completed in a month, when the returns and profits will be serve good. profits will be very good.

Mr. Adam Murray's reports on Wheal Augusta, East Balleswidden, and West Wheal Virgin, appear among our Mining Correspondence. Mr. Murray has likewise inspected the Weston Lead Mines, of which he has a

highly favourable opinion.

During the week shares have, in the Mining Exchange, changed hands in Wheal Reeth, 87. 10s. to 90. Treviskey, 2001.; Bedford, 71. 5s.; Alfred Consols, 161.; Tincroft, 41. 10s.; Betallack, 2051.; Mary Ann, 591.; Trelawny, 521.; Bodmin Consols, 41.; Butterdon, 71. 5s.; Craddock Moor, 91.; East Tamar, 11.; Garreg, 11. 5s.; Helvellin, 251.; South Tamar, 21.; West Alfred, 191.; West Ding Dong, 31. 10s.; Wheal Arthur, 31. At Exeter, two shares in Devon Consols have been sold at 3081. each, and in London 14 at 3007.

In Foreign Shares, transactions have taken place in St. John del Rey at 19\frac{1}{4}; Mexican and South American, 4\frac{1}{6}, \frac{1}{4}; United Mexican, 2\frac{1}{6}, \frac{1}{2}; Cobre, 39; National Brazilian, 2\frac{1}{2}.

From the Alten Mines, the returns at present are small, and produce low. The melting of the snow impedes progress; more favourable results may be expected shortly. The prospects under the 40, at United, continue favourable. At the Old Mine, the middle sink holds out good prospect of remunerative returns. The produce from Michell's new lode, though small, is satisfactory.

may be expected shortly. The prospects under the 40, at United, continue favourable. At the Old Mine, the middle sink holds out good prospect of remunerative returns. The produce from Michell's new lode, though small, is satisfactory.

From Linares, the accounts to end of May are highly favourable. The 55 east has yielded 7 tons per fim.; west, 2 tons. Other parts of the mine, including the tribute department, are progressing well. From the January stock 75 tons was sent off per Helena. The first weekly report of the smelting operations will be found in another column. The lead from the reverberatory furnace is estimated to yield 14 ozs. of silver to the ton, and altogether most beneficial results are calculated upon, resulting from smelting operations. Ore weighed in for the week, 34 tons 2 cwts.: total in stock, 1043 tons, and 17 tons of pig lead.

From the Imperial Brazilian, the accounts continue of a gloomy character; further breakages have occurred, and the poverty of the ground above the 24, from which so much was expected, has caused very great disappointment. Now all the dependence is on the gold holding below, which will be proved as early as practicable. In consequence of the large milliar breaking in two at the bearing, the water rose up to the 14 fm. level; the small one from Thomas's, of 7 in. diameter, has been applied, the weight now being divided equally on the two cranks, and thought likely to stand. The big pump vein has been cut in the 24, but found poor. Blamey's shaft is holed to adit, ground favourable for making rapid progress. From Gongo an increased produce is expected in the ensuing month, Joinville's stamps having gone to work with 12 heads. The cart-road into Santa Rita is completed, and a trial of 20 tons of the stuff by stamping will forthwith be proceeded in. The next arrivals may, therefore, be looked for anxiously by those concerned.

From the National Brazilian the accounts received are as anticipated—highly favourable; the washings obtained being the best for upwards of a twelvementh, and still on the improving order. From Cuiaba, by next arrival, most important news may be looked for, and an increased produce. For April the returns have altogether risen to mks. 32 0 6 22, one-half of which is from Cocaes.

For April the returns have altogether risen to mks. 32 0 6 22, one-half of which is from Cocaes.

The advices from the St. John del Rey Mines, up to the 28th April show them even more prosperous than those for last month, the returns for March being 29:303 oits, from 7239 tons of ore, and equal to 281:51 lbs. troy, yielding 44 oits, per ton, and leaving a clear profit of 4633f. 13s. 6d. from stamps working 117:74 heads, and that for April estimated to yield equally as good results. The reports will be found in another column.

From Santiago de Cuba, we are glad to find the water has been forked out of the 24 fm. level again, though with considerable difficulty, owing to Thompson's shaft being sunk diagonally instead of downright; consequently, the bucket lift had to be dropped three several times instead of once, adding greatly to the expense, and occasioning much of the delay; they have still another 18 feet drop to make to reach the bottom of the shaft before they can resume sinking. The lode in Angelita shaft yields 2 tons of grey ore and green carbonate of copper per fm. At Porseverancia, all the lode stuff is reserved for dressing, and in Taylors shaft, down 2 fms. under the 10, they have good ore. Goldsmid's shaft is suspended, on account of water. Goodhope shaft has been sunk 20 feet in ore, lode average 3 feet wide, the orey part varying from 6 in. to 2 feet, and altogether has yielded 10 tons of ore. The stock of ore on the 30th of April was 340 tons.

By the United Mexicon described of the stock of ore on the 30th of April was 340 tons.

gether has yielded 10 tons of ore. The stock of ore on the 30th of April was 340 tons.

By the United Mexican despatches, down to the 28th April, we learn that the buscones' produce and sales are still on the decline. The workings in San Diego and Santa Isabel show that the vein is wide, but the average ley inferior; other parts equally poor, while the contra cicle is of an improved ley. The average number of workmen employed is 70, and the produce of dressed ore to the hacienda is 3050 cargas. At Mina Grande they have five workings in the vein below and beyond the old workings, from whence they are daily expecting a change of a more interesting character. The Easter holidays have contributed to lessen the extraction, and the returns for March are \$22,601 1 7. A protracted drought has been felt, so as to cause them to stop work at the Barrera hacienda. The price of forage continues to advance, and maize is nearly \$5 the farrera.

The following is an extract from a private letter received from Mexico by the last packet:—"The mining interest has suffered here dreadfully of late, for want of water and the frightful high price of fodder. The celebrated mine of La Luz is gradually being worked out, the profits being now inconsiderable. Santa Lucia, the next great mine in the district, has also fallen off, but the mine being comparatively new there is room to hope for large returns of ore. The next three new mines round are showing signs of early and good profits, but they have already cost their owners upwards of \$500,000, without yielding a penny of the working expenses."

By the kindness of a correspondent, we are enabled to give the exports of lead from the south and so

HULL, THURSDAY.—Messrs. T. W. Flint and Co. state that the market for mining thares has been flat since their last report.—Heavy shares are not much dealt in, and ighter ones, with the exception of Tremaynes, Gustavus, and St. Aubyn and Grylls, are typesent very quiet.

lighter ones, with the exception of Tremaynes, Gusfavus, and St. Aubyn and Grylls, are af present very quiet.

The transactions of the past week in Bank shares comprise:—British North A merican (500, paid), 44‡; Commercial of London (204, paid), 18; Provincial of Ireland (254, paid), 43‡, 444; difto New (104, paid), 19; Union of Australia (254, paid), 35; ditto (24. 10s. paid), 3‡; Union of London (104, paid), 19‡.

In Dock shares East and West India mark il. lower, but other descriptions are unlatered as follows:—Commercial Stock, 84; East and West India, 144; London, 113‡; St. Katherine, 77½; Southampion, 15.

Steam-boat shares do not attract quite the usual share of attention, but prices are fairly maintained. General Steam Navigation shares marked 28½, ½; Peninsular and Oriental, 71, 70; ditto New (54, paid), 10; Royal Mail Steam, 764, 76.

Miscellaneous shares are quoted as follows in the official list:—Assam Tea Company, 9; Australian Agricultural, 15; Australian, 724; 20; Anglo-Mexican Mini, 20; Canada Company, 47; ditto Five por Cent. Bonds, 99‡; Hudson's Bay Stock, 205; Price's Patent Candle Company, 23; South Australian, 724; Yan Diemen's Land, 1.

There is no particular movement in the market for Insuvance shares, and prices are unaltered, being quoted as under:—Albion, 86; Alliance, British and Foreign, 21‡; ditto Marine, 36‡; Anchor, 1‡; Atlas, 17‡; British Commercial, 7; Church of England, 2‡; 3; Clercal, Medical, and General Life, 24; European Life, 12; General, 5‡; Globe, 13¢; Marine, 50; Law Fire, 2½; Law Life, 45‡, 46; Legal and General Life, 14; London, Fire, 19; London Ship, 19; Marine, 15¢; Medical Invalid and General Life, 24; Monarch, 1ex, 10; Marine, 50; Law Fire, 29; Law Life, 45‡, 46; Legal and General Life, 4‡; London, 1ex, 19; Marine, 50; Law Fire, 20; Hunted Kingdom, 4; Victoria Life, 5‡; Phemix, 156 ex. div.; Frofessional Life, 19; Tuited Kingdom, 4; Victoria Life, 5‡; Phemix, 156 ex. div.; Frofessional Life, 1

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending June 7, was 20,270.—Amount of money, £84 9s. 2d.

## THE SHARE LIST.

We this week present our readers with what we consider an improved Share List. In the first class we place all those mines that are now making dividends, or have done so during the present working; and by keeping this up regularly, it will not only show the total dividends paid, but the last declared also, which

cannot fail of being satisfactory to all concerned. Should there be any errors or omissions, we shall at all times feel grateful to be supplied with corrections, to enable us to make it perfect.

Our second list also is open to communications from those who are prepared to furnish correct particulars, which shall have immediate attention, it being our constant endeavour to quote the price of every transaction in mine shares that comes to us duly authenticated.

Messis. Powles Brothers & Co. have Sold to the

LEAD ORES

Sold at the Mine, on the 9th of June. 
 Mine.
 Tons.
 Price per Ton.
 Purchasers.

 Wheal Mary Ann
 64
 £22
 1
 0
 R. Michell & Son ditto

 ditto
 46
 8
 4
 6
 Sims, Willyams,

Tic	ketings at the	White	Horse Hot	el, Holyu	ell, on th	e 12th June.
Mine.		7	ons.	Price per	Ton.	Purchasers.
Maesyrerwddu (	Talargoch)		671	£11 14	0	Walker, Parker, & Co.
ditto			654			
	ditto					
Hendre		*****	17	10 7	6	ditto
ditto		*****	6	11 0	0	ditto
ditto			41	10 15	0	ditto
Deep Level (Hal	kin)		70	10 13	0	ditto
Talacre						
Lloc	* ** ** ** ** **		60	11 13	6	Walker, Parker, & Co.
Monline			90	11 17	a	Altero

BLACK TIN

Mines. Wheal Tree

 Mine.
 Tons c. qr. lbs.
 Price p. Ton.

 Illneral Court
 3 19 1 12
 £55 5 0 — C

 ditto
 0 6 0 15
 25 0 0 —

 ditto
 0 4 3 4
 50 0 —

Sold at the Mine, on the 10th June.

COPPER ORES

Mines. Tons.	Prod.	Price.	Mines.	Tons.	Prod.	Price.
ditto105			Cobre			
ditto 67	244 18	1 6	ditto	. 36	2541	8 18
ditto 63	244 18	16 0	ditto			
ditto 59			ditto Berehaven			
ditto110	154 11	8 6	ditto	-123	104	7 7
ditto 97 ditto 96			Knockmahon .			
ditto 44			Kapunda			
ditto 102	144 11	1 0	ditto	. 12	41 3	2 10
ditto 80		6 0	Cuba	. 65	14	1 7
ditto 48			Port Lincoln Gloster Slag			

ven nahon	350 111		2,549 785	14	6	Port Lincoln	42	 714	0	0
		****	,0		-					

COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Tons.	Amount	
English Copper Company	145	£1623 15	0
Freeman and Co	111	785 6	6
Grenfell and Sons	261	3036 10	9
Sims, Willyams, and Co	468	7921 7	6
Vivian and Sons	338	3415 4	0
Williams, Foster, and Co	425	6508 19	3
Schneider and Co	147	1723 15	0
Mason and Elkington	51	944 15	6
Low's Patent Copper Company	146	1938 1	0
Total	2092 ₤	27,927 14	6

Copper Ores for Sale 24th June.—Cob., 94, 90, 73, 68, 56, 7, 5, 102, 100, 67, 15, 6—
Serehaven, 127, 126, 80—Knockmahon, 108, 53—Kaw-aw, 58, 50—Waterloo Slag, 54, 10

—Aberdovey, 30—Manx, 20, 3.—Total, 1402 tons (21-cwts.)

AVERAGES

	2 T 42 20 12 C	41 10 1							
	Produce.	Price.		Standard					
British	104	£ 7 12 0	4	295 17	0				
Foreign	20 3-16	15 0 6	*******	85 11	6				
Sale	18	£13 7 0	£	86 15	6				
Totals -	-British 474; Foreign, 16	518 = 2092 to	ns (21-cwts.)	,					

AVERAGES OF LAST SALE

	Pro	duce.		Price.		Sta	nda	rđ
British		9	£ 6	11 0	*******	£96	15	0
Foreign	1	164	12	6 6		87	18	6
	-	_	-			-		_
Sale		112	:€8	15 6		£92	3	0

Totals-British, 1113: Foreign, 666 = 1779 tons (21 cwts.)

COPPER ORES.

Sampled May 28, and Sold at Andrew's Hotel, Redruth, June 12.

Mines. To			Pric	e.	Mines. Tons. Price	e.
Carn Brea 9	9	£3	18	0	Alfred Consols 55 25 1	-
ditto 9	1	. 3	13	6	ditto 36 13 14	-
ditto 8	5	. 4	9	0	ditto 25 6 19	-
ditto 7		. 6	2	0	ditto 24 6 19	-
ditto 7		. 7	2	0	Polberro 71 2 11	-
ditto 7	1	. 8	9	6	ditto 69 2 3	-
ditto 7		. 5	5	0	ditto 44 3 9	-
ditto 6		. 10	18	6	Levant 112 1 8	-
ditto 6		. 1	17	6	ditto 43 9 4	-
ditto 6		. 8	11	0	West Wh. Treasury 55 7 0	-
ditto 4		. 9	9	0	ditto 54 4 18	6
Tywarnhayle 10		. 4	12	0	ditto 33 9 19	(
ditto 9:		. 2	11	6	Wheal Agar 45 4 4	i
ditto 86		- 474	10	0	ditto 38 m. 5 8	i
ditto 5		674	5	6	ditto 32 10 1	i
ditto 4		- 0	10	6	Wellington Mines., 63 5 2	i
ditto 4:		. 4	0	0	ditto 40 2 17	i
ditto 3			9	0	Providence Mines, 39 3 17	6
ditto 33		. 2	11	6	ditto 32 0 17	ō
ditto 2		. 2	9	6	ditto 31 2 9	0
ditto 1		43	4	6	Botallack 54 5 10	6
Nancekuke 85		. 2	18	0	ditto 30 9 16	6
Wheal Buller 12		. 5	12	6	West Wheal Seton, 81 4 2	ō
ditto 94		6	18	0	South Wh. Speed., 46 1 8	6
ditto 90		9	5	6	St. Aub. & Grylls., 28 4 3	ō
ditto 63		4	18	0	ditto 10 10 13	0
ditto 58		5	2	0	West Alfred Cons. 37 4 3	0
ditto 12		1	12	0	Wheal Friendship, 14 3 9	Ö
Par Consols 98		5	10	0	Relistian 7 3 16	ŏ
ditto 92		7	2	6	South Wh. Fortune 6 3 5	Ö
ditto 72		10	17	0	East Wh. Treasury 5 2 4	ŏ
ditto 68		6	ii	0	Wheal Tshidy 5 4 7	õ
Alfred Consols 66		6	9	0	Spearn Moor 4 8 16	6
ditto 57		5	7	0		

TOTAL PRODUCE.

ı	Carn Brea		 € 4928	4	6	, Botallack	84	 4	€ 593	2	0
l	Tywarnhayle ?	622	 2208	14	0	West Wheal Seton	81		332	2	0
ľ	Nancekuke	022	 2200	1.4	U	South Wh. Speed	46		65	11	0
ľ	Wheal Buller	441	 2805	5	6	St. Aub. & Grylls	38		222	14	0
ľ	Par Consols	327	 4404	12	0	West Alfred Cons.	37		153	11	0
ı	Alfred Consols	263	 1842	3	0	Wheal Friendship.	14		48	6	0
ı	Polberro	184	 485	16	0	Relistian	7		26	12	0
l	Levant	155	 553	9	6	South Wh. Fortune	6	 -	19	10	0
ľ	West Wh. Treasury	142	 980	13	6	East Wh. Treasury	5		11	0	0
ı	Wheal Agar	115	 717	17	6	Wheal Tehidy	5		21	15	0
١	Wellington Mines		 435	6	0	Spearn Moor	4		35	6	0
ı	Providence Mines		 254	5	6						

Average Standard ...... £100 9 0 | Average Produce ..... 8 

Standard of corresponding sale last month, 100%. 10s .- Produce, 8.

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Mines Royal	336	£ 1729	6	.0
Vivian and Sons	689	3500	2	6
Freeman and Co	596	2708	10	9
Pascoe Grenfell and Sons	525	2243	13	9
Sims, Willyams, & Co	493	2394	14	9
Williams, Foster, and Co	770	5689	13	3
Schneider and Co	185	879	15	0
			-	-
Total tons	3594	£ 19,145	16	0

Copper ores for sale on Thursday next, at Andew's Hoiel, Redruth.—Mines and Parcels.—Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Wheal Ann. Maria, 1608—West Caradon 378—Marke Valley 288—Fovey Consols 220—Wheal Friend ship 217—Holmbush 210—Bedford United Mines 142—Phonix Mines 140—North Whea Buller 40—Heignston Downs 27—Wheal Gorland 13,—Total, 3253 tons.

Duner 40—Heignston Downs 27—Wheal Gorland 13.—Total, 3283 tons.

Copper ores for sale on Thursday week, at Lenderyou's Hotel, Truro.—Mines and Pacels.—United 938—Tresavean 369—Par Consols 320—Wheal Gomfort 300—South Cardon 214—South Tolgus 193—Treleigh Consols 88—South Granis 77—Boscuadle 57-West Wheal Jewel 48—Wheal Mary (Redruth) 43—Richards's Ore 15—Polgooth 8.-Total quantity of ore to be sold, 2670 tons (21 cwts.)

## MINING APPOINTMENTS DURING THE WEEK.

Condurrow account, on the mine.
 East Pool and Tywarnhayle accounts, on the mine.
 North Roskoar and other mines sampling.
 Ticketing at Redruth.—Devon Consols and other mines.
 Pay at West Buller and Levant.
 Pay at Consols, Comfort, Seton, Pendarves, Tywarnhayle, Agar, Nansegollan, Fowey Consols, Tremayne, Treviskey; setting at Levant.

In the House of Commons, last night, Sir Wm. Somerville obtained leave to bring in a bill to provide facilities for owners and lessees of mines in Ireland to obtain entry on lands for searching for and working such mines.

The Northern Whig congratulates its readers on the success that has attended the efforts to restore the iron manufacture in Ireland. In Belfast a scrap-iron foundry has been established, and already the proprietors have shipped iron to England and Scotland. It would appear, also, from statements in the Banner of Ulster, that new fields for mining speculation are presenting themselves in the northern province, and it is said that a great part of the county of Down exhibits strong indications of various ores, and that there is a probability of obtaining coal, without much expense, in the vicinity of Belfast.

"J. Y."—Mr. Watson's Compendium of British Mining will be resumed in our next.

\*.\* We exceedingly regret being compelled, from a pressure of late news, to withdraw MP

D. Mushet's paper on Practical Mon—this, with several letters, shall appear in our next.

Mr. W. S. Ward's paper on the Use of the Baro later in Coal Mines is also postposed.

#### NOTICES TO CORRESPONDENTS.

THE GREAT EXHIBITION. -- In cor

THE BLAFT-FURNACE.—The mode adopted by the Ebbw Valo Company, a in South Wales, for collecting and using the gases from blast-furnaces, wa dillustrated in the *Mining Journal* of the 30th Merch, 1850.

described and illustrated in the Mining Journal of the 30th March, 1850.

INFORTOR OF COLLERING.—We think with our correspondent ("M. J.," Newcastle) that before any agitation is got up on this antipect is would be wise to wait until the present inspectors have presented their half-yearly report. That a great change in the lagislative enactment must take place, as also a considerable increase in the number of inspectors, or sub-inspectors be appointed, before any real good cau be offected, is apparent to all; but we fear more victims will have to be sacrificed, and the public mind still-further roused to action, to cause a pressure from without, before the Government will be prevailed upon to bring forward a really useful and efficient system of inspection, one is which it should be inspectative on owners to adopt proper means of precaution, and the neglect subject them to real, and not make believe, penalties.

presention, and the neglect subject them to real, and not make believe, penalties.

W. F. "(St. Ives).—The "Cost-book System—its Principles and Practice," was described in the Journal on the 13th October, 1849. A more elaborate paper is paring for early publication.

N. T." (Tregear).—The office of the Darwant Mines Company is in Queen-street-place Southwark-b-idge.

"N. T." (Tregear).—The office of the Darwant Mines Company is in Queen-street-place, Southwark-bridge.

Mozeur of Economic Geology.—Although the several departments are by no means yet full, the young geologist and interalogist may spend several consecutive locars in viewing the wonders of the substratum of the earth with which it abounds with much pleasure and edification; and we cannot do better, now it is open gratis to the public three days a week, than recommend to the friends of youth coming to London during the approaching holidays to make a point of their paying at jeast one or two visits to this museum of Nature, in some of her most beautiful forms. In the entrance hali will be found complete series of specimens of building stones and marbles from Ireland, Derbyshire, the Lisard Point in Cornwall, and Wales. The walls are lined with panels of various-coloured polished British marbles, and the floor is a beautiful mosaic, bordered with polished red granite. Some splendid tazza and statungy adorn this hall in various parts, and there are two extraordinary specimens of polished stalagmitic arragonite, presented by Prince Albert, one of which is cut into a circular table top. On arriving in the great hall, the cases, showing the progress of metallurgy, immediately present themselves. Copper may be seen in its various kinds of ore, its several stages of smelling, up to the production of the pure metal, and in numerous manufactures. This, iron, and the various enter metals, are all arranged in similar order, and each case is illustrated by specimens of metallic implements, ancient and modern. In the two iters of gallet is will be found a most interesting collection of feasils, those "medials of Nature," arranged according to the geological plan of the various formations to which they belong, commoncing with the lower Sturian, and ending with the upper tertiary. An Engineer" should read the remarks on the Tubular Bridge, in the Journal of the 16th and 23d of March, 1859.

loth and 23d of March, 1850.

"G. C. S.," of Wakefield, complains of the Evergiment he has received at the hands of the officials of an adventure: it was his first mining enterprise, and he went to work cattionsity—took a 5t, share, and paid for it by fortnightly instalments: his contract note and certificate were said to be lost or mislaid, when a fliend most obligingly transferred over to him one of his own shares. This transfer, he says, he sent to the office, and he cannot get it back, on the pice that it is not decided how the company shall be conducted—the shares have been altered from 5t, to it shares. He hears out of doors that he is entitled to six 1t shares, but can get no satisfactory information, neither can he obtain a copy of the annual report, half a year after the general meeting. Our correspondent is, however, like all the world, coming up to London in 1851, and if he does not succeed in obtaining that information to which, as an adventurer, he is entitled, he intends to "show-up" all the parties, by publishing the correspondence on the subject. We recommend "G. C. S." to call at the office when he arrives: we can assure him of the high respectability of the parties. Our correspondent is evidently not as fall at mining matters; the transfer cannot be returned, it forms part of the Cost-book.

A Subserber."—We always decline giving an opinion on individual mines as an invest.

fail at mining matters; the transfer cannot be returned, it forms part of the Cost-book.

"A Sabscriber."—We always decline giving an opinion on individual mines as an investment; we may, however, in this case asy that we believe the six adventures named in the list to be fair speculations; the third and fifth are undoubtedly good mines.

"Mining Investor" (Callington).—We do no think it would be fair or decorous to bring the name of the agent alluded to before the public in our columns, merely because our correspondent was "quite excited one evening" by hearing him hold forth on the subject of mineral veins. Perhaps there may have been some other Cornish causes for excitement; at all events, as our correspondent acknowledges his merits, after a 30 years' acquaintance, from a boy on the floors, through the practice of a pickman and tributer, to become a well-trusted agent, we think he should not withdraw his confidence because he indulges in a few flights of fancy on the formation of mineral veins. We know several "first-rate hands" who fly a good deal higher on this subject than the Cap'n John alluded to.

"An Adventurer" (Camborne).—We shall readily publish the reneward in forward to the content of the content of the property of the content of

We know several "first-rate handa" who fly a good deal higher on this subject than the Cap'n John alluded to.

"An Adventurer" (Camborne). —We shall readily publish the reports, if forwarded to us from the mine or the office for that purpose: we make no charge.

"R.P." (Zealmonachorna).—We shall readily publish the reports, if forwarded to us from the mine or the office for that purpose: we make no charge.

"R.P." (Zealmonachorna).—We shall readily publish the reports, if forwarded to us from the purpose of investment, and also to name any particular broker. There are respectable parties in Exeter and London who will, no doubt, honestly advise on the subject. Under the circumstances of our correspondent, however, we should first endeavour to make ourselves a little more acquainted with the subject than he appears to be, before we risked the invostment of capital in what must over be a fluctuating stock,

STANAOWYN MINE.—We have received a communication from the writer of the para graph respecting this mine, in which Mr. Bodemer's name was used: it appears that the parties interested have met, and now consider themselves justified in alluding to that gentleman as having expressed a high opinion of the mine, he having congrast that the parties interested have met, and shown some specimens of the ore which he had collected, and intended having examined by Mr. Henwood, but which, it appears, was not done. The writer and his friends have no wish to put Mr. Bodemer to the inconvenience of further explanations, considering it possible that, "as a foreigner, with no great proficiency in our language, may have used words, then or now, in other than their ordinary signification, and so may have used words, then or now, in other than their ordinary signification, and so may have used words, then or now, in other than their ordinary signification, and so may have used words, then or now, in other than their ordinary signification, and so may have been misunderstood, or have misunderstood it effect of his expressions."

"G.

B. W. J."—The invention has been already described in our Journal: apply to Mr. F. W. Campin, patent agent, 156, Strand, who will forward the particulars required.

"B. W. 3."— Incluvention has been already described in our Journal: apply to Mr. I. W. Campin, patent agent, 156, Strand, who will forward the particulars required.

"Enquirer " (Perranzabuloo).—A right derived under lease to work for and obtain minerals, is accompanied by a right to operate at surface to an extent necessary for the proper working such minerals—due care being always observed that no injury to the rights and property of others be inflicted; and respecting coal mines, it has been settled in the case Earl of Cardigan e. Armitage, that the incidental power to the right to dig goals would warrant nothing but what was strictly necessary for the proper working of such coals. It would allow no further use at surface, no undue deposit on it, no attendance of unnecessary presons; and it was even doubted if coals could be deposited for sale, or buyers introduced to view what they were coing to purchase. In taking a mineral lease, therefore, it is necessary to see that such protective clauses are inserted as will secure all necessary rights for the raising and selling the produce.

VENTILATION OF COAL MINES.—"J. S.," writing on this subject, says that in Scotland the pits are generally 13 feet by 5 feet, which is divided into two—one being 8 feet by 5 feet, and the other 5 feet by 5 feet, the smallest being used for the upcass shaft and also for drawing; and when the cage is ascending and descending, the current of air is completely arrested in its course; the waste never gets ventilated, but shut up, and allowed to become reservoirs of fire-damp or carbonic acid. He states that the only mode of artificial ventilation is what is termed a cube, or fire-lamp, in the shaft, with a door in it, to prevent the foul air passing through the flame.

3-AT HOLES MINE.—In the report of this mine, in last week's Journal, "Cornish's lede."

BAT HOLES MINE.—In the report of this mine, in last week's Journal, "Cornish's lede ahould be "the Cornish lode;" and "driving north, in the 48 cross-cut," should rest "driving north, at the level of the 48 cross cut."

"A. M." (Au Vigan).—Our "Glossary of English and Foreign Mining and Smelting Terms' had better be obtained through a neighbouring bookseller—the price is 2s.

H. B." (Dublin).—A letter addressed to our office, will be forwarded to Mr. Evan Hop-kins, who is at present inspecting mines in Devon and Cornwall.

MINERALS FROM CLONMORE.—In our notice, in last week's Journal, of the minerals found on the estates of Mr. Phillips and Viscount Dillon, for "coppersmith's forge," read

"common smith's forge."

Enquirer" (Huil).—The submarine telegraph experiment took place on the 28th of August fast, when communications from England to France were printed, which are now in the possession of Louis Napoleon. In the wire was 25 miles in length, measuring, with its covering of gutta percha, only half-an-inch in diameter. Mr. Little's improved electro-telegraphic instruments were described and illustrated in the Journal on the

G. S. B." (Leicester-square).—Mr. Fenden Warr's lectures on Metallic Cl the St. James's Polytechnic Institution, are postponed until the 23d inst., of indiposition.

W. R." (Glasgow) had better address a letter to Mr. M. K. Knight, secretary to the West Middlesex Water-Works, New-road, London: we will insert a description of his invention, should be wish to publish it.

We have not received the Wheal May report this week.

We must impress upon our correspondents, the necessity of invariably furnishing us with their names and addresses—not that their communications should, con-sequently, be noticed, but as an earnest to us of their good faith.

\*.\* It is particularly requested that all communications may be addressed—
TO THE EDITOR,

Mining Journal Office,

46, Flext-Street, London.

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the proprietors

## THE MINING JOURNAL Mailway and Commercial Sazette.

LONDON, JUNE 14, 1851.

The MIRING JOURNAL is published at about Eleven o'clock on Saturday morning, at the office, 26, Float-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

A considerable amount of dissatisfaction on the part of some or the ironfounders and manufacturers of Dublin has been engendered by the directors of the Dublin and Kingston Railway having employed Messrs. Fairmairs, of Manchester, to construct a wroughtion bridge of 60 ft. span, for carrying the railway over the Dodder river. A memorial addressed to the Irish public on the subject has been published in the Advocate, and as we cannot be aware of all

the circumstances connected with the transaction, or the grounds on which the directors chose a high tender out of Ireland, in preference to a low one on the spot for the same article, we can only give an outline of the ex parte statement as put forward by the complainants, the directors, doubtless, being in a position to explain the whole proceeding to the public satisfaction. The document alluded to is signed by F. Barrington, the Irish Engineering Company (Seville-place), John and Robert Mallet (Victoria Foundry, Dublin), M'Coy and Grendon (Drogheda Iron-Works), W. Robinson (Phonix Iron-Works), and R. Turner (Hammersmith Works), and protests against the unjust and unfair decision lately made by the directors upon the designs and tenders for the bridge over the Dodder. They state that Messes, Fairbairs had had the subject under consideration for more than a month; while the circular gave the Irish engineers just ten days to prepare their designs and tenders. That Messes, Mallet submitted a two-fold tender—first, for the construction of the superstructure of the bridge in accordance with their own design, and with their own peculiar form of girder; and, secondly, on the plan of Fairbairs's box girders, as licensed under his patent; both being accompanied by a voluntary undertaking to keep the bridge in repair for 12 months. They say they have reason to believe that one of these was approved of by the company's engineer, and that a model of it struck every member of the board with admiration. Both their tenders were lower in amount than those of any other party, and much lower than Fairbairs's, which was accepted in the absence of the engineer and of Mr. Pim, the secretary. They fulfilled all the conditions in the circular, were one-eighth lower than Messes. Fairbairs; security for their proper construction in proper time was ready to be given, and yet they were rejected. The protest animadverts at considerable length on this result, and observes that, while such a bias exists towards imported commodities, agai

In another column will be found an interesting paper on the pro-gress of improvements in the beautiful art of electro-metallurgy, which will be perused with considerable interest by our readers. The fact there shown that Messrs. ELKINGTON and Mason have improved Mr. Woolriche's invention so much that a magneto-electric proved Mr. Woolbiche's invention so much that a magneto-electric machine after his plan does now the same duty in one-fourth of the time as before was done with a great number of large galvanic batteries, is an interesting and most important proof of the great steps with which the application of electricity is pregressing; as it shows that quantity of electricity, as well as intensity, may be produced by the dry battery only by revolving the armature. Messrs. Elkington produce the motion by means of a belt, moved by a steam-engine, which is used for other purposes; but while Mr. Nolley's machine only requires the power of a man to work his armature, Mr. Henley's beautiful magneto-electric arrangement shows best how little power is required to move the armatures, and, at the same time, what power a permanent magnet may obtain. It has long been said that the expenses of working galvanic batteries, and the want of constancy in their action, would prevent the application of electro-magnetism as a motive-power, but these obstacles are now entirely removed; and we leave, therefore, to our scientific readers to judge from those facts which we have pointed out, as well in the present as several previous Numbers of our Journal, what may be expected. what may be expected.

In recording an explosion at Byer's Green Colliery, in our last Journal, in which a son of Mr. Jons Ronson, of Whitwell Grange, aged 19, lost his life, our correspondent had been misinformed, and misled us as to the occupation of the deceased. We stated that he was resident viewer of the colliery, and animadverted strongly on the appointment of a mere youth to so responsible a situation. We find, however, such was not the case. The colliery was under the entire superintendence of the under viewer, Mr. John Dakers, one of the parties who accompanied deceased when the accident took place, and who had taken a naked light into the same part of the workings on the previous Friday. Mr. WILLIAM HENRY ROBSON, the deceased, was at Byer's Green Colliery for practical experience and study, to qualify him as colliery viewer at a future period. The case was fully investigated before the coroner. The Government Inspector, Mr. M. Dunn, was present, and the jury returned a unanimous verdict of "Accidental Death." We are happy to find we were in error, and with much satisfaction record this explanation.

The late fatal accident which occurred on the Lewes branch of the London, Brighton, and South Coast Railway, has created a greater sensation among the travelling world than any other casualty of the kind which has recently taken place, and brings most strikingly to the mind the simple but astounding fact, that under no aggregation of the most favourable circumstances can the traveller by rail congratulate himself with the idea that he shall reach his journey's end in safety. To all appearance, at starting, no one could by possibility have conceived how an accident could happen; every precaution had been taken by directors and officials in the general regulations; had been taken by directors and officials in the general regulations; the line was in perfect order, the train a small one, with but seven or eight passengers, the engine-driver well acquainted with every inch of the road, and the time mid-day; and yet, 'ere half the journey is complete, five souls are hurried into eternity, and numerous survivors left to mourn the unfortunate event. Had there been 100 passengers in the train, the accident would still have happened, and who could imagine the awful descruction of human life which then must have taken place, and the undoubted distress which must have followed to the survivors; for although we have an establishment by which the blessings of life assurance are applied to railway travelling, we regret to say the Brighton Company, from some unaccountable reason, or for no reason at all, refuse to allow the issue of the tickets of the RAILWAY PASSENGERS ASSURANCE COMPANY at any of their stations.

of their stations.

The advantages held out by this company are such as the poorest traveller can avail himself of, and nearly every railway company in the kingdom has adopted measures at their stations to enable him to do so. It is a subject of much importance, and it is but justice to those companies who second these efforts to soften the affliction caused by such catastrophes, to point out the fact, that the London and South-Western, the South-Eastern, and the London and Brighton, are the only companies who refuse to make arrangements for the issue of the tickets of the Railway Passengers' Assurance Company. While it is an undoubted statistical fact that accidents by rail, compared with the numbers who travel, are infinitely less in proportion than by former means of conveyance, accidents will happen: and, with such economic means at hand for securing some proviless in proportion than by former means of conveyance, accidents will happen; and, with such economic means at hand for securing some provision in case of death or injury, it is but mere justice that every company should give facilities for taking advantage of the benefit.

A question of considerable importance, not only to the colonists themselves, but to the iron trade at home, is beginning to press upon the consideration of the inhabitants of South Australia. Considerthe consideration of the inhabitants of South Australia. Considering the great abundance of rich iron ore in various parts of the colony, easily accessible—actually lying on, or obtained close to, the surface of the land—the idea has very naturally been raised and promulgated that means may be found for their economical reduction on the spot, and thus not only render South Australia independent of other countries for her iron, but eventually enable her to become an exporting country herself. Previously, however, to bringing before the Adelaide public a proposition for the formation of a joint-stock company for the manufacture of iron in the colony, it has been thought desirable that a full and efficient trial should be made on a moderate but sufficiently large scale to test the practicability of conversing the ore into pig-iron—to furnish accurate data of the actual cost of the process—to prove the quality of this pig-iron as to its capabilities for general purposes, and its usefulness as a forge material. The spot selected as most advantageous for this experimental purpose is near the Montacute and Adelaide Mines, on the Sixth Creek, about 11 miles from Adelaide, where there is an abundance of wood for charcoal, water-power, and large quantities of rich hematitic and poorer clay iron ores, limestone, and other requisites. From the most careful calculations which have been made, it appears that a sum of 300/, will be amply sufficient to erect a moderate-sized blast-furnace with appliances, by which accurately to prove the cost of the iron produced on a larger scale, and this sum it is proposed to raise by public subscription. We can see no reason why the experiment should not answer equal to the wishes of the most sanguine; but there is a bar to this portion of Australia at present becoming an iron-producing country, simply in the absence of coal nearer than Sydney, 700 or 800 miles off to the north; or New Zealand, still farther to the east. In all mineral countries the most dense and thickly studded forests have disappeared before the progress of the blast-furnace; and as South Australia is far from being remarkable for large tracts of forest land, whatever success attends the introduction of the iron manufacture, it appears to us it will, under all the circumstances, be but transitory.

the introduction of the iron manufacture, it appears to us it will, under all the circumstances, be but transitory.

Another subject connected with the mineral produce of the colony has also been under serious consideration—the establishment of rolling mills, for the conversion of copper into sheets, for sheathing, domestic, and manufacturing purposes—it being much regretted by parties interested in the Burra Burra, and other copper mines, that, notwithstanding the success which has attended their smelting operations, and the acknowledged excellence of their metal, and its purity, they are obliged to witness its exportation in pigs and cakes, while its conversion into sheet would secure for it a market, at least throughout the eastern world. There can be little doubt but that this branch of manufacture would prove successful, and add greatly but that this branch of manufacture would prove successful, and add greatly to the resources of the colony, the energies of the inhabitants of which, it is gratifying to find, are turned in the right direction to secure its future prosperity, independence, and happiness.

We have inserted in another column a communication from Mr. FOTHERGILL, the managing partner of the Aberdare Iron-Works, recently brought before the public in so uncaviable a position, relaand thus carrying out the truck system in its most degrading and despotic form. In thus giving publicity to Mr. Fothergill's explanations, we cannot admit that he has brought forward a single planations, we cannot admit that he has brought forward a single argument, or established an isolated fact, to justify the system adopted, or to show in the most remote degree that the firm were not all along fully aware that they were infringing the law, and that they were supporting a system of compulsory purchase degrading to the character of the men, and of espionage on their movements totally at variance with all that is held dear in this constry under the term liberty. Whatever terms we may have used in our remarks on this case and the truck system generally, and however severe some observations may have appeared, they have been levelled at the system, and not at individuals. And while we are willing to insert Mr. FOTHERGILD'S statement, we must take the liberty to observe, that we believe the prosecution to have been got up, not by a combination of shopkeepers, but by a party widely disseminated, proceeding on totally disinterested grounds, in a pecuniary point of view, but who are determined to see the abolition of the accursed system complete, not only in Wales, but in every corner of the United Kingdom.

We are happy now to congratulate the working men of the Aberdare

of the United Kingdom.

We are happy now to congratulate the working men of the Aberdare Company on their emancipation from the thraldom to which they have been subjected. On the evidence being tendered against Messrs. FOTHERGILL, in the Aberdare Police Court, on the four informations filed against them, Mr. Edwards, for the company, stated that the firm, convinced of their error, had determined on giving up the truck system, paying the men in cash, and allow them to purchase their goods either at Mr. Lawrence's

in cash, and allow them to purchase their goods either at Mr. Lawrence's shop, or at any other in the town, and the company agreed to pay all costs. The four informations were immediately withdrawn, but 40 others remain on the books as a guarantee of good faith.

This is as it should be; and Messrs. FOTHERGILL, while they have done themselves infinite credit in acknowledging they were in the wrong, in casting a pernicious system to the winds, and adopting a righteous one, will, we trust, hereafter, be as much respected in their public capacity as they have hitherto been esteemed in private circles. The example is a good one, and will strike at the root of the evil, spread as it is over many parts of the United Kingdom. parts of the United Kingdom.

It is with the most sincere regret we learn that our talented and instructive correspondent, Dr. John Murray, has for some time been lingering under severe and dangerous illness at Stranraer, N.B., and that he is at present almost a helpless invalid, in a sad state of prostration, both of body and mind; the latter, we are sorry to say, increased by his inability to bear the least exertion, and the consequent unsatisfactory position of his pecuniary affairs. Such announce-ment on our part, we can conceive, must be most painful to a sensiment on our part, we can conceive, must be most painful to a sensitive mind; but we think, under present circumstances, it would be false delicacy to withhold the true facts of the case, and most happy shall we be if such brief notice brings in the aid of the wealthy and benevolent at this emergency. The sphere of Dr. Murray's utility is large. He has devoted the greater portion of his life in the ardent pursuit of science, and in an almost unexampled earnestness to devising schemes for the safety and welfare of his fellow-creatures, without, we regret to add, any corresponding reward. Shipwreck, the coal mine, the thunder-storm, have been investigated by him with zeal, and means adopted for the safeguard of human life. He has published nearly 30 works on various subjects of art and science, and his inventions practically brought into use amount to about 20. We sincerely trust that, though a severe, the present may prove but a transitory illness, and that many years may yet be spared to him in health and comparative comfort and happiness.

Quarrying Granite in Scotland.—The granite found at Redhall, about one mile from Edinburgh, and at a place called Binney, about 10 miles distant, is remarkable for its fine grit and durable quality; and to which the majority of the buildings in the City are indebted for their beautiful appearance. Specimens of this granite may be seen in the Exhibition, particularly one fine one forming a colossal figure of Wallace, by Ritchie. The mode of loosening the blocks from the solid beds is by blasting; and Mr. Gowan, the proprietor of an extensive quarry at Redhall, and also one at Binney, has been at great expense laying open the lower rocks, and in improvements in machinery for boring, blasting, raising, dressing, and shipping the various masses when detached. The bore holes are made 26 feet deep, by 5 inches in diameter, by which a large charge of powder can be introduced, and large masses of rock loosened from their bed without the shattering effect of smaller blasts. There is a crane capable of lifting 50 tons for raising the blocks to surface, when a travelling crab takes them up, and conveys them to the dressing-floots, where they are squared and partially worked to a face, and by means of a railroad and another crane are shipped into barges. To the boring machine now employed by Mr. Gowan, a horizontal circular movement is given as well as a vertical fall, which prevents the chisel always pitching on the same point of the stone in the hole. The drills are from 20 ft. to 30 ft. long, 2 inches in diameter, terminating in a Z-shaped chisel; it is worked by winch, handle, and fly-wheel, there being a cam on the shaft, armed with friction rollers, which lifts the borer by catching on to a collar attached to it, which collar is movable as the drill sinks deeper into the rock. There is also a smaller winch with rope and pullies to hold up the borer, while the men are sludging out the hole. The machine is mounted on wheels when necessary, for the purpose of transport.

Auriferous Quartz from California.—We have, during the week, inspecied some gold-bearing quartz, from the Aqua Fria Mine, situate on the Aqua Fria River, in the Mirapossa district, which certainly for general richness in the precious metal exceeds everything of the kind we have before seen; and if the generality of the vein in depth equals these specimens, the parties who possess this set have certainly a fine prospect of success. A large quantity of the auriferous quartz from the mine is now in London and America—in both of which places it has been amply tested, and found most extraordinarily productive. We observed three masses of gold, the product of samples sent for assay to the Bank of England—one of which gave 1561. 15s. 11d. worth of metal from 10 lbs. 7 ozs. 4 dwts. of quartz; another, chosen as a picked specimen for richness, 1004, 7s. 10d. worth from 3 lbs. 3 ozs. 2 dwts.; and from a very poor piece of quartz, weighing 10 lbs. 6 ozs. 16 dwts., in which no gold could be seen, 15t. 10s. 10d. were obtained. This quartz vein crops out on the slope of the mountain, and is observable for 600 feet in length, with an average width of 4½ feet. Some of the specimens we have seen have been taken from the very outcrop of the rock

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this com t surface, worn and disintegrated by atmospheric action, and the gold left protruding in masses of all shapes and sizes; others, again, are broken from below, and show the gold as it exists in the quartz in situ. The vein underlays at an angle of about 45°, and, in addition to its crystallised texture, it appears to lie in a kind of stratification, with fine veins of clayey matter interposed. We understand that it is the intention of Messrs. Palmer, Cook, and Co., the proprietors of this mine, to form a company, represented by some of the most honourable men in this country, to work this deposit by English capital, in connection with the Americans; and as far as appearances go, there can be little doubt of the result, provided the enterprise be well conducted, and carried out in good faith. There are large quantities of the matrix, in masses of all sizes, up to 50 or 60 lbs. in weight, exceedingly rich in gold, to be seen, and no deception; and the necessary measure to be adopted is the most economical mode for its abstraction.

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Coals for Steam Navigation Purposes.—We are informed that Messis. Davey, 'Pegg, and Co., of Old Barge House Wharf, Blackfriars, have recently become the owners of the Birchgrove Graigola Colliery, reaching a coal so well known for its excellence for steam purposes, and in Interferedom from black smoke. The colliery is situated 4½ miles notch-north-west of Swansea; the present depth is 62 fathoms—the seam being 6 ft. thick, with an inclination to the north of 4½ in. to the yard; the overlying strata being composed of a hard black stone. The vein is worked by pillar and stall; the coal presents a brilliant irregular fracture when broken; and many portions possess that peculiar radiated appearance so often observed in other varieties from the same district. Scarcely any white shale can be detected; but there are spots of iron pyrities. During the experiments of Sir H. T. De 4a Beche and Dr. Lyon Playfair, to which we have before called attention, it was found to light with tolerable case, producing a good clear fire, with little smoke. When first thrown on the fire, it burns with scintillations, gets up the steam rapidly, and keeps up a regular heat. Its evaporative power is represented as 9·22 lbs, of water, evaporated from 212° Fahr, by 1 lb. of coal. A cubic foot weighs 51 lbs.; and a ton as fit for fuel occupies 44 cubic feet. Its specific gravity is 1·360; and its component parts are—Carbon, 84·25; hydrogen, 4·15; nitrogen, '73; sulphur, '86; oxygen, 5·58; ash, 4·43. In convertion into coke, it leaves the large proportion of 85·1 per cent. of a highly carbonaceous fuel, giving intense heat. Messrs. Davey, Pegg, and Co. have numerous testimonials from proprietors of steam-engines, in which the character above given of these coals is fully borne out, the quality stated to be most excellent for steam purposes, perfectly free from smoke, and leaving no clinker whatever on the fire-bars.

MINING IN IRBLAND.—Among the numerous industrial resources that the sister island possesses, and which have never been adequately developed, one of the most important is her mineral deposits. In many cases mines have been sister island possesses, and which have never been adequately developed, one of the most important is her mineral deposits. In many cases mines have been opened and worked successfully for a considerable period, but with the usual characteristic improvidence of the Celtic race, in times of prosperity no reserve fund was provided for adverse days. According to Sir Robert Kane, the copper deposits of the south of Ireland possess great capabilities, and if properly worked give the most encouraging hopes of a remunerative profit for the capital invested, but to attain this end it is necessary that they must be scientifically and economically prosecuted. The Killeen and Glenawlin Mines were inspected some time by Captain Clemence, and Capt. W. Lean, of Holmbush, who favourably reported on them. Mundic in large quantities is found on the backs of lodes, yielding about 50 per cent, of sulphur, which finds a ready sale in the market; in extending the level into the caunter lode copper has been cut, which gives every prospect of rich returns. The Cosheen Mine was worked some time since without any subscribed capital; according to Sir R. Kane, in 1840 it produced 126 tons of ore, value 1164. 2s.; and in 1843 360 tons, value 2605/15s. For eight or nine years this mine, which is advantageously situated on the side of a hill at Skull Harbour, returned upwards of 20,000l. In this mine a deep adit level has been driven in just above highwater mark on the course of the principal lode. This adit drains the mine had killas formation, and are principally composed of grey copper ore, bunt-kupfer erz, and malachite, together with peacock ore, of a high per centage. This was abandoned on account of a call being required to drive cross-cuts to parallel lodes which had been previously explored. Owing to the famine and other causes at that period which pressed on the resources of Irish property, this was not responded to, and the mine was, consequently, given up. The Mizen Head Copper Mine, in the same district, has produced specimens

The Gerral Exhibition.—Professor Tennant, of King's College, has commenced delivering a series of lectures on mineralogy and its application to the arts in the lecture-room at Hyde-park. This week the lectures have been on the physical characters of minerals, and silica and its combinations. The ensuing ones will be on "lime and its combinations used for building and other purposes," gems and ornamental stones used in jewellery, and metallic minerals. The whole of the course has previously been reported in detail in various numbers of the Mining Journal during the present year and the preceding. One of Professor Tennant's most interesting lectures on the gold of California, was published by us in February, 1849. We have no doubt but that the lectures will be fully attended; and, from the comprehensive and intelligible style adopted by Professor Tennant in his explanations, those practically and professionally unacquainted with the subject on which he treats will have information which may be considered dry and terse in its details, delivered to them in a familiar and pleasing manner, and obtain thereby a good insight into the mass of the mineral products of the earth placed before their view in the Palace. To those more acquainted with the subject, much may be learnt; and patient attention to a lecture thus delivered will materially assist the student in his labours, and lighten his researches in the "arcana of Nature."

MALACHITE IN IRELAND.—At the present time, when so much attention is drawn to the specimens of manufactured malachite in the Russian compartment of the Exhibition, it may not be inapposite here to mention that there are some valuable deposits of this mineral in the south-western part of Ireland, which are sufficiently large, and of such a quality, as to be useful to the lapidary for ornamental purposes. It is seldom, in any place where it has been hitherto discovered, that it is found in slabs exceeding a foot square. The pieces are united so as to render the concentric lines of the stone continuous, and thus massive tablets of 6 or 7 feet in length are found of apparently one solid piece.

EXTENSIVE FAILURE IN THE IRON TRADE.—On Tuesday a meeting of the creditors of Messrs. Finch and Willey, of the Windsor Foundry, Liverpool, was held at the Clarendon Rooms, South John-street. The large room was crowed long before the hour of meeting, which was appointed for one o'cleck. At that hour Mr. Wickham, of the Lowmoor Iron Company, was unanimously voted to the chair, and a statement of the accounts, drawn up by Mr. Bewlay, was submitted to the meeting; from which it appeared that the total liabilities of the drim were 65,000L, to meet which it was calculated that the assets from all sources would realise 10s. in the 1L. Mr. E. Finch stated that 18 months ago, on the retirement of Mr. Smith, who is a creditor for 7000L, there was a loss of 6000L on the concern, and that the completion of the contractathen on hand had since entailed a further loss of 7000L. The Bank of Liverpool is well secured, as also Mr. Geach, of Birmingham, who had advanced 10,000L on account of Chepstow-bridge; but the creditors of Finch and Son are also creditors to this estate to upwards of 20,000L. A committee, consisting of Mr. Pearce, of the firm of Jones, Bland, and Co., Mr. Ledward, and Mr. Langton, were appointed to wind up the concern as speedily as possible.

EMERATION OF QUARRYMEN.—It is stated that a large number of the best and most experienced of the men employed in the extensive slate quarries in North Wales are preparing, during the course of the ensuing summer, to emigrate to the United States. Numbers have already gone over, and the reason assigned for the departure of these men is the heavy amount of local taxation and the smallness of remuneration for labour. It is stated that the rate of payment in the American quarries is nearly three times greater than the amount which can be realised in the Wolch workings. Several instances have recently occurred where men who left their native land deeply involved in debt have been enabled by the excellence of remuneration for their toil to remit the amount of their debts in full, so as to discharge every claim that could be krought against them. been enabled by the exce amount of their debts in brought against them.

OMPRESED AIR-ENGINE RAILWAY COMPANY.—Sir Win-Horne has de-ed a return of 4a, 9d. per share to be divided amongst the shareholders in company out of the assets realised.

IMPROVEMENTS IN REACTRO-METALLURGY.

In no department of the Great Exhibition are the advantages which science onfers on art more clearly illustrated than in electro-metallurgy, wherein the agency of the subtle fluid, which, directed by the cunning hand of man, shivers into fragments the sunken rock, also gilds the wing of the butterfly so delicately that the exquisite framework is not hidden by the golden film. To Prof. Jacobi belongs the honour of having discovered this process, but Elkington and Mason were the first who applied it in this country, and hold the valuable patent: other manufacturers who plate by the same process are licensees. The patent was perfected in 1840, and notwitstanding that, are incensees. The patent was perfected in 1840, and notwistanding that, in common with nearly every discovery which revolutionises existing practices, it encountered much opposition, it has already become an important branch of industry, and by the facilities it affords for the production of the finest forms and most ornate compositions, it is now, and will still more largely become, an important adjunct to art education. The advantages which plating by the agency of electricity possesses over the older process will be readily understood when it is stated, that until this discovery raised surfaces and expectable high relief, which are cost could not be produced. will be readily understood when it is stated, that until this discovery raised surfaces, and especially high relief, which are cast, could not be produced on articles of plate in any other metal than pure silver. Hence plating was confined to articles having a plain surface, or when applied to ornamental designs, such as a salver, or dish with a raised border, the relieved portion was formed of a thin stamped surface of silver, filled with base metal, and attached to the body of the article. It is evident that a process so limited in its application to ornamental manufacture could never have popularised the use of compositions having any pretension to art beyond beauty of outline. The costliness of silver is necessarily a hindrance to the production, as it is to the use of elaborate works in that metal. The process of electrogilding, by its comparative inexpensiveness and unlimited application to all purposes to which silver is applicable, is destined to be, as it has to a considerable extent already become, a school of art at the table of every man line. The costliness of silver is necessarily a hindrance to the procustion, as it is to the use of elaborate works in that metal. The process of electrogliding, by its comparative inexpensiveness and unlimited application to all purposes to which silver is applicable, is destined to be, as it has to a considerable extent already become, a school of art at the table of every man of even a moderate income. If our readers will glance at any of the centre-pieces in the cases of the Messrs. Elkington, in the south-west gallery, for example, the "crown imperial," or the figures and festoons on the Exhibition vase, they will precieve at once that the truth of the forms and the spirit of the compositions depend upon the relief of the parts, and consequently that there is much of what is called "under-cutting." The floral vereath on the vase referred to, or the ourl of the leaf of the crown imperial, may be taken as familiar illustrations of the term. Such articles could not be produced by the old process; but by the electro-system the subtlety of the agent employed in plating carries the particles of decomposed metal to every crevice of the composition, and hence no elaboration of ornament, height of relief, or complication of design presents the slightest difficulty to the electro-plater. Another important advantage is, that, unlike the old process, the electro-plater is not restricted to the use of soft solder, composed principally of lead, which melts at a low temperature, and forms an insufficient joint. The articles made by Messrs. Elkington are soldered with hard silver solder, not affected by any ordinary degree of heat, and forming a joint as strong as the metal itself. The base, or body upon which the pure silver is deposited, is a white metal, approximating to silver in colour and density of structure. These preliminaries being understood, the reader will easily comprehend the process of plating. The troughs in which this goes noiselessly forward are three parts full of a solution consisting of dissolved or

this additional advantage—that the more rapid the deposition, the more hard and firmly is the silver deposited. The machine of Messrs. Elkington has eight series of steel magnets, which are used for other purposes, and is driven by a stesm-engine.

Thus, then, we have a correct though non-scientific knowledge of the plating solution and the depositing agent. Now, the article to be plated having been suspended in the liquid, the magnetic current is passed through it, and the result of the action is, that the solution is decomposed, the metal separated from the potash, and gradually deposited on the surface of the article—the thickness of the coating being determined by the duration of the immersion, the quality of the solution, and the strength of the current. In the process of plating the solution, of course, becomes exhausted of the metal. To keep up the supply plates of pure silver are suspended in the liquid, and the silver dissolves as rapidly as the deposition on the articles takes place, atom for atom. For several years the metal so precipitated had a dead or frosted appearance, such as that in the figures of the centre piece called the "National Games," and other figures in these cases, and was subsequently burnished; but by the use of a little bi-sulphuret of carbon in the solution, the after labour is avoided, for the article now leaves the trough with a high degree of polish. Like many other important discoveries this was the result of accident. The bi-sulphuret of carbon was used for giving elasticity to vulcanised India-rubber moulds, and a particle of the substance having mixed with the plating solution, it was observed that the deposit of metal assumed a bright appearance. Hence the important improvement. Such is the process of electro-plating, the gilding being almost similar, with this difference—that in order to expedite the coparation, the solution is heated. It is at once evident that such is the command of the operator over the thickness of the coating that the quality of the plated article nammering alone. If, therefore, there ever is in any electro-plated articles a tendency to skin or peel off, the fault arises from the bad quality of the metal employed, or from the carelessness or incompetence of the operator, not from any defect in the system.

GRATIFYING TESTIMONIAL.—We have pleasure in stating that a numerous body of sub-agents and workmen, employed at Dowlais under the superinten-desce of Mr. W. R. Davies, late mill manager, have presented him with a handsome breakfast service, value 20 guineas, in token of their sense of the uniform uprightness, impartiality, and kindness, displayed by him during his connection with the Dewlais works. Mr. Davies has left the service of the Dowlais Iron Company to take the management of the Abercarne Works,—to which position, we may add, he has advanced himself by his industry and intelligence, and Abercarne and the neighbourhood generally congratulate themselves upon his appointment.

LOCOMOTIVE FOR COMMON ROADS.—A locomotive, constructed by a journey-man engineer, for travelling on ordinary roads, has arrived at La Villette: it travels, it is said, at the rate of from 26 to 30 leagues an hour, is of simple construction, and consumes little fuel. It came from Picardy, and all along the route the inventor was received with enthusiasm.—Galignani's Messenger.

## Original Correspondence.

ABERDARE IRON COMPANY-THE TRUCK SYSTEM.

Sin,—I have submitted in silence, for a length of time, to a series of virulent attacks made by an interested body of shopkeepers upon the Aberdare Iron Company and myself; but when you, Sir, upon, I am sure, false formation, actually make us the subject of your leading article, and de-

virulent attacks made by an interested body of shopkeepers upon the Aberdare Iron Company and myself; but when you, Sir, upon, I am sure, false information, actually make us the subject of your leading article, and describe our conduct in the terms therein used, I feel it is time to supply you and in doing so the public, with a simple statement of the real facts of the case. The Aberdare Iron Company have, for some 50 years, been proprietors of certain buildings, used by various tenants as shops; and during the 8 or 10 years previous to 1850 they were let to, and occupied by, a Mr. John Lewis, one of the now members of the shopkeeping combination. He, however, after making a considerable sum of money, thought proper, with the money realised, to erect shops of his own close by, and upon their completion gave up the Aberdare Company's premises. Fresh tenants were then sought for, but they were successively frightened away by the threats of the late tenant. At length a party (Mr. Thomas Jones, of this place) arranged to take them; but he, too, after finally agreeing on terms, was induced to abandon his intention, and begged to be let off.

Mr. John Lewis became now sure of his game, and it was commonly reported he had said the shops should never be let again. I, however, not choosing to submit to this loss of property, arranged with Messrs. Lewis and Lawrence to rent them, on my undertaking to give them all legal and proper protection (the words named in their agreement); but in doing so I bound them to supply their customers with the best and cheapest of goods, and the rent to be a certain per centage on the amounts of business done on the premises, for all of which see the evidence given in court on the 16th May. The protection admitted in the neighbouring county to be legal I adopted, and it worked to the manifest advantage of the workmen as well as myself; and amongst other gratifying proofs of it, I was congratulated by the medical man attached to the works, and paid by the men (Dr. Roberts), on the greatly i

shop, that he hoped Mr. Crawshay would cause a similar one to be started at his works.

I will not needlessly lengthen my letter by exposing each base and false accusation, so diligently invented and sent abroad by this interested and unserurulous body. I will only notice the one instance entitled in your paper as indecent and diabolical, where a workman is described as applying for a certain amount of wages due to him for the purpose of burying a child, which was refused him, but goods offered instead. Now, Sir, in the most unqualified manner I assert this to be a base and calumnious falsehood. I have made anxious inquiry into the story; and the only foundation I can discover for such an atrocious statement is that a collier, some four months back, applied at the office for the loan of 30s., for the purpose of burying a child. No vages being due to him, the cashier, in accordance with his invariable custom, on receiving such an application, consulted with the man's immediate master, Mr. John Smith, coal agent, who did not, in his judgment, recommend the man for charitable aid, and he was, therefore, refused the loan; and upon such a foundation has a Minister of the Gospel thought proper to raise the false and shameful accusation. I will now only request your candid attention to the evidence adduced in open court on the 16th May, and even to the words used by the magistrate on his adverse judgment; and I think you will admit we have been somewhat too hastily proclaimed to the country as diabolical despots.

RICHARD FOTHERGILL.

Managing Partner of the Aberdare and Taff Vale Iron-Works.

#### ARE "MINING" AND "MINERALS" SYNONYMOUS TERMS. LEGALLY?

LEGALLY?

Sir,—In the remarks which appeared in last week's Journal upon the case of Micklethwaite v. Winter, decided in the Court of Exchequer, was not an error made in considering "mining" and "minerals" as synonymous terms? We think here that iron ore is decidedly a mineral, although it is worked as an open quarry, technically called "patching," and is rated in this neighbourhood to the poor rate as an ironstone quarry, although, if worked as an "ironstone mine," it would be clearly exempt.

Merthyr, June 12.

A CONSTANT READER.

## ARE "MOUTHINGS" ADMISSIBLE IN SHAFTS?

ARE "MOUTHINGS" ADMISSIBLE IN SHAFTS?

Sir,—Are monthings admissible in shafts? The Inspector says, Yes, under certain circumstances. An inquiry took place here, on Friday last, at an inquest on the body of a man who was killed by falling from a mouthing at the thick coal to the bottom of the shaft. The jury, at a previous adjournment of the inquest, being of opinion that such a method of working mines was not compatible with a well-regulated colliery, had readjourned, for the purpose of receiving further evidence, and, if possible, of availing themselves of the Government Inspector's opinion on the subject. Mr. Southcomb and Mr. Cope had also been requested to examine the colliery. Mr. Dickinson, the inspector, having previously inspected the colliery, read his report to the jury, and which was acquiesced in by the two other practical gentlemen present. The gist of the report set forth that mouthings in shafts, although not numerous in Staffordshire, are from uncommon in other counties, especially in Lancashire; and though they are always attended with more danger than when there is only one landing, and that one at the bottom of the shaft, still they are so useful, and afford such facilities for working mines, that when used under proper restrictions, and with the addition of a platform, and also of a rail to prevent persons walking into the shafts, the inspector was not prepared to condemn them as inadmissable, even in well-regulated collieries.

In the present instance, however, the upper seam was only ten yards from the surface, and at the request of the jury the proprietor undertook to work it by another shaft.—An Old Collier: Darlaston, June 7.

## THE STAFFORDSHIRE MINES! INSPECTOR.

THE STAFFORDSHIRE MINES' INSPECTOR.

SIR,—Permit me to inform "Thick Coal," in reply to his inquiry, that the district assigned to the inspector of coal mines for Staffordshire comprises the counties of Staffordshire, Shropshire, Worcester, Denbigh, Flint, Anglesca, Cheshire, and Lancashire. It comprises about 1000 collieries—many of which, especially in the latter county, are first-class. The thick coal, or even the whole of the collieries in Staffordshire, consequently form but a small fraction of the number. Mr. Dickenson, the inspector for the district, resides in Manchester.—M.: June 9.

## THE LOST MINE INSPECTORS.

Sig.—Your Staffordshire correspondent inquires who the impoctor of that district is, and where he is to be found?—a question more easily asked than answered. We in South Wales had a grimpse of Mr. Black-

well in December last, but we have heard nothing of him since, and have ancied that he was luxuriating among the thick coal in the midland councies. Where is Mr. Morton? and where, oh where, is Mr. Dickenson? Can any of your correspondents tell us what has become of them, and what they are desire? Mr. Dune appears in a great and reference had Can any of your correspondents tell us what has become of them, and what they are doing? Mr. Dunn appears in earnest, and performs his important duties like one thoroughly alive to the responsibilities he has undertaken. The public are much indebted to him for the temperate zeal he has evented, and for the brief but very satisfactory explanations he has given in some of the cases he has recently investigated.

CYMRO.

THE STAFFORDSHIRE MINES' INSPECTOR.

THE STAFFORDSHIRE MINES' INSPECTOR.

Sir,—"Thick Coal" does not appear aware that the coal seams in South Wales vary in thickness from 2 ft. up to 15 ft.; Mr. Blackwell's thick coal practice will, therefore, not be entirely lost in such a district. The inspector, who has spent the greater part of his life amongst these seams, and is a colliery where little short of 1500 tons of coal per day are produced, may well open his eyes, "half-frightened and bewildered," at "Thick Coal's" picture of the "vast area" of a colliery "containing some 10 or 12 pillars." Think (says "Thick Coal") how pleasant it would be if the inspectors were a little more communicative. It is true they visit the collieries, backed by an Act of Parliament, and compel the owners to show them the whole of their operations, and to produce the plans which have been hitherto guarded with such jealous care, that it might be thought a breach of confidence to discuss such matters weekly in the wide-spread pages of the Mining Journal. Such a course might speak volumes in their favour with "Thick Coal;" but would scarcely accord with the feelings of your friend—A. O.: June 11:

## EXPLOSION OF FIRE-DAMP IN COAL MINES

Sir,—My attention having been drawn for a long time to the great sa crifice of human life by the explosion of fire-damp in coal mines, and also crifice of human life by the explosion of fire-damp in coal mines, and also from gas where it has accumulated in houses, vaults, &c., I have, after considerable thought and pains, been successful in discovering the means of detecting the same, and indicating their presence, whereby I believe a vast security will result to the lives of miners. My plan is (by an apparatus, simple in itself, yet available to the poor miner) the detection of the escape of gas, and the conveyance of the intelligence to those in the immediate locality, or to any required distance in any mine, and to the top of the shaft, without the agency of electricity.

This being an exceedingly delicate fire, as well as gas detector, when once fixed, will require no further outlay; and a two-fold advantage in houses is obtained by the same instrument.

I shall be happy to see, or call on any scientific gentlemen on the subject, who may be disposed to introduce the invention, after being fully satisfied with its practical utility and benefits.

E. H. WILLMOTT.

Cannon-place, Mile end, June 13.

## RAILWAY CONSTRUCTION—PREVENTION OF ACCIDENTS.

SIR,—The dreadful accident which was reported in the Times of Monday as having happened on the Brighton and South Coast Railway Company's branch line to Lewes, adds another to the many railway catastrophes which we have so frequently to deplore. Accompanied as it was with such truly appalling scenes of sudden and agonising deaths, the details in themselves are too shocking to be dwelt upon; but the vivid representation which must have been pictured to the imagination of every one who perused the detailed recital of facts, as given in the daily journals, should lead men to consider the question attentively, as one of vital interest, in which they are deeply concerned, with a view to prevent in future such which they are deeply concerned, with a view to prevent in future such reiterated and wholesale sacrifices of human life.

It is, in my opinion, useless to attach blame to careless officials, and, after making an example of them, remain satisfied until the recurrence of a

making an example of them, remain satisfied until the recurrence of a similar misfortune startles us anew with the consciousness of our hair-breadth escapes, and, I might almost add, foothardy adventures.

The public should inquire into the first principles of railway construction; and if they did so, they would become painfully aware of the slight tenure of existence on which railway travellers are dependent under the present system. They would, indeed, soon discover that a large proportion of the accidents which now-a-days stain with blood the annals of human misfortune may be attributed not to the carclessness of railway functionaries, nor to the want of proper precautionary regulations on the part of railway companies, but to a defect inherent in the system of railroad conveyance, which jeopardises the lives of tens of thousands, and makes me wonder—not at the number of accidents that fill us so constantly with dismay, but at the thousand and one escapes which, by a providential and almost miraculous chance, have saved millions from being suddenly launched into eternity, or from dragging on, for the rest of their suddenly launched into eternity, or from dragging on, for the rest of thei natural lives, a maimed and miserable existence; and I venture to say that the sword suspended above the head of Damocles by a single hair was almost a guarantee of security and immunity from personal injury when compared with the all but certainty of danger which men are now daily exposed to in the ramifications of railroads throughout the world I have long been of opinion, and repeated accidents have confirmed my views, that the flange cast on the wheels of railway carriages is not by any means sufficient to prevent the trains from running off the rails, espe cially on inclined planes and on curves, where the tendency of the vehicle

below the rails requires to be continually opposed in a more effectual manner than has yet been done.

With a view to remedy this evil, I have given particular attention to the subject. It always seemed to me, and the idea has struck other engineers, that the plan of forming the flange on the rail itself was a greater security against accidents of this nature than the method now generally in use of placing it on the wheels, the change in the original form of rails was not adopted from any absolute objection to the flange, but from a certain disc. placing it on the wheels, the change in the original form of rails was not adopted from any absolute objection to the flange, but from a certain disadvantage attendant upon its position—that it retained dust and other extraneous substances on the rail, by forming an angle with it, and thus a coating was gradually accumulated, which in the course of time increased the friction, and took from the railroad so constructed the chief advantage it was intended to have possessed, in presenting to the wheels passing over it a comparatively even surface, so as to diminish, as much as possible, the amount of friction which renders the traction so difficult on our common code. amount of friction which renders the traction so difficult on our common roads. I have, therefore, devised a combination of the original flange rail with that now usually employed, by means of a new form of chair, so as to gain all the advantages of the old system, without any of its defects; and in this way, I place, as it were, a continued wall on each side of the train, which would prove an insurmountable barrier to the deviation of the carriages, even if they were going at their maximum rate of speed. The proposed flange may be made to reach nearly to the height of the axle, over which it would be impossible for any carriage to escape, and by its being entirely independent of the rail, and only supported at intervals on the chairs, can in no way favour the increase of friction. This would not supersede the flange on the wheel, as it is merely introduced to give greater security to the present system. With a view to public safety, this plan should be adopted on all portions of a railroad where danger may be apprehended, such as on high embankments, on all bridges and vladuets (instead of parapet walls, which would not then be required), in cases where a lake, river, or ravine is in close proximity to the line, &c. A description and drawings illustrative of the above plan will be found in the Crystal Palace in Hyde-park, together with other improvements which I propose in railroay matters. which I propose in railway matters.

London, June 12. WILLIAM HENRY VILLIERS SANKEY, C.E.

THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE will communic its meeting at Ipswish, on Wednesday, July 2, under the presidency of the Astronomer Royal. We are requested to state that previous announcements of the occurrence of the meeting at an earlier period are incorrect.

NATURAL CURTOSITY.—At the meeting of the Geological and Polytechnic Society, on the 5th inst., a very remarkable stone was exhibited. It was an ordinary slab of grit stone, about 2 ft. long and 1 ft. high, found very recently in a quarry at Oughtl-bridge, and sent down to Mr. Ald. Dunn, the chairman of the meeting. The peculiarity of it was that one side presented the entire features of a landscape—trees, water, and rocky foreground, gracefully and effectively disposed. The appearance was dim, but not in so great a degree as to call forth any effort of the imagination to supply defects. That the picture was a genuine production of that greatest of artists, Nature, none of the sacants to whose inspection and criticism it was submitted saw any reason to doubt. Mr. H. C. Sorby stated that in his geological researches he had met with several specimens of the same kind of curiosity, particularly in limestone, but none so remarkable as the one now exhibited.—Sheffeld Times.

Manufacture of American Needles.—The only needle manufactory in

MANUFACTURE OF AMERICAN NEEDLES.—The only needle manufactory in the United States is that established at Newark, by Mr. Henry Essex, who was formerly employed by Hemming and Son, in England. The wire of which the needles are manufactured is imported from England, as none of the requeste quality is made in this country.—New York Post.

MINING IN CORNWALL AND DEVON.

BY CAPT. CHARLES THOMAS, OF DOLCOATH MINE, CAMBORNE. [Concluded from last week's Mining Journal.]

No tin mine, yielding a profit, has hitherto been found except in what shall call secondary granite, or in compact clay-slate (killas), connected or unconnected with elvan. This kind of granite, which I distinguish as secondary granite, is generally coarse-grained, jointy, and the fracture so irregular that it would be difficult to get a common post of any length out of it. It varies in colour, and is either very white, dark, or reddish; it also varies considerably in hardness, but may always be distinguished from the primitive granite by its very uneven fracture. Copper ores are much more extensively diffused, and good mines of this metal have been found in secondary granite, compact clay-slate (killas), of various colours when granular, and containing a large portion of quartz, and in greenstone (ironstone). Lodes in dark coloured killas are most productive when above, or passing through, elvan courses; below the elvan they are seldom rich, unpassing through, eivan courses; below the civan they are seldom rich, un-less another elvan course, or granite, be situate below it still. The muddy white killas, and the blue and black killas, containing a small portion of quartz unconnected with elvan, or granite, may furnish good specimens of ore, but no mine yielding a profit has been found in them. No copper mine is found in shelving, roofing, or paying slate. Lead, in large quantities, is found in comparatively soft blue, dark, or light clay-slate. In strata yielding tin and copper small quantities of lead are sometimes found, but

yielding tin and copper small quantities of lead are sometimes found, but never sufficient to pay for working.

Secondly, the character, size, and composition of the lode. Long experience in this department of mining seems absolutely requisite. The experienced eye, at a single glance, judges more accurately than an inexperienced person can do after the most laboured investigation and analysis. A good gossan, of a fair size, the old guide of the miner, is an excellent one, and almost a certain one for ores not far below the surface. The overs however, are not always found immediately below the gossen but one, and almost a certain one for ores not far below the surface. The ores, however, are not always found immediately below the gossan, but sometimes at a good distance east or west of it. In commencing a mine, therefore, gossan is one of the best guides a miner can follow; but at greater depths other guides will be wanted, as vast quantities of ore are found there with but little gossan near the surface. I beg to caution the young miner, here, against a deception very common in our day, of calling almost every substance of a reddish colour, found in the backs of lodes, gossan. The present race of young miners have had comparatively little to do with the backs of lodes; and although gossan still retains its high character as a guide to a rich mine, very few of them really know what gossan is—verbal description will convey but little information on this matter. My advice to you is, to collect specimens yourselves from the backs gossan is—verbal description will convey but must mornante. My advice to you is, to collect specimens yourselves from the backs of our rich lodes, and compare them with the reddish substances taken of our rich lodes, and compare them with the reddish substances taker from worthless speculations, so often palmed upon the credulous public as

real gossan.

Thirdly, the direction or bearing of the lode in your sest. This is of greater importance than is generally supposed: where the direction is wrong, whatever other favourable indications may be present, I have seldom known a profitable mine. The best direction for different metals varies very greatly: tin lodes, varying from 30° north of east to 30° south of east (magnetic), a range of 60°, have been found profitable for working. Copper lodes, with a similar range of 60°, but varying from 10° north to 50° south of east, have been found profitably productive; lodes varying from 5° north, to 20° south of east, have yielded the greatest quantity of lead ores. In lodes whose direction is from 20° to 45° south of east, very rich ores are found, but not in very great quantities: in ledes bearing 10° lead ores. In lodes whose direction is from 20° to 45° south of east, very rich ores are found, but not in very great quantities; in ledes bearing 10° north of east, the ores are generally very poor. The best direction for lead lodes is from 10° west of north to about 40° east of north. I berich ores are found, but not in very great quantities; in ledes bearing 10° north of east, the ores are generally very poor. The best direction for lead lodes is from 10° west of north to about 40° east of north. I believe the above to be a statement of facts, as found existing in the mines of Cornwall and Devon; the exceptions are exceedingly rare, and when they occur the cause can be ascertained. There is an apparent exception in the St. Just district, but I believe the deposits of copper ores even there may be satisfactorily accounted for, on the assumption that no profitable copper mine exists in Cornwall or Devon, where the deposition has not taken place within the arc above referred to—viz.: from 10° north to 50° south (magnetic). I have found in numberless instances a rich course of copper ore, while the direction of the lode was 5° north of east, but a turn in the lode taking place of 5° further north the lode would not pay for working. The three particulars above described are, in my judgment, of paramount importance in estimating the value of any locality as a mining speculation. Other indications of minor importance I shall not now stop to describe; but, if or carefal consideration, the geological character, size, appearance, and composition of the lode, as well as its direction, are found to be in accordance with the preceding description of the general features of a good mining district, a favourable result may be confidently anticipated. This remark applies only where the three specified circumstances decidedly concur. Intermediate and partial appearances may, for a time, mislead the most cautious and experienced observer, while one, or even two, of them may be very prominent, and yet the third being wanting the whole may prove a failure. Another source of erroneous judgment in estimating the value of a sett may arise from a partial inspection. All lodes are subject to great variations in their direction and size, and where these are found together, you need scarcely induge a fear of ultimate fail and wherever in that direction the great beds of secondary grante, compact clay-slate, greenstone, white granular killas, and elvan courses are found, there the great deposits of copper and tin have been found. These beds do not everywhere extend to the whole width of the 12 miles, but large tracts sometimes occur, of several miles in length, where the strata are utterly unfavourable for mining operations. The tract extending from Chacewater to several miles east of Truro may be adduced as an example. In strata of this character lead is the only metallic deposit likely to be found: the strata north and south of this 12 miles zone, as far as I have had constrained from himself accountable of the miles of the mil had opportunity of making observations, seem unfavourable for mining operations; hitherto, at least, profitable mining has been almost entirely

included within that width. I wish particularly to impress the leading facts of this address on the nemories of the young miners, especially among my hearers. If I am I wish particularly to impress the leading facts of this address on the memories of the young miners, especially among my hearers. If I am understood and remembered, my object in coming before you will be accomplished. My object is to advance the knowledge of practical mining, not to appear scientific or eloquent. To assist your memories, then, allow me to represent to your imaginations the county of Cornwall, and Devon as far east as Exeter, as a large flat-fish, spread out into the sea. Let the west of Cornwall, from Hayle and Marazion to the Land's-end, represent the head, the rest of Cornwall the body, and Dartmoor and vicinity the chine and tail. Primitive granite will then represent the back bone; accondary granite and compact clay-slate the muscular flesby fibres, from the back to the sides; greenstone killas, intersected by elvan courses and granular white killas, the ribs and softer parts of the fleshy sides; and the muddy killas, shelfy slate, and secondary limestone the fins and belly fat. In the secondary grante and compact clay-slate, nearest the back bone, are the great deposits of tin; in the same strata, a little further removed from the back bone, as well as down the sides, in greenstone, and in killas near elvan courses, also in white killas when granular, you will have to search for copper; branching off at nearly right angles from the copper and tin deposits, in the soft flesh between the ribs, lead will be found; in the back bone itself, and the soft fat, the primitive granite, and the shelv.

\* A lecture delivered at the Camborne Institution, April 29, 1851.

ing slate, you will find excellent materials for walling and roofing, but no metallic ores to remunerate you for your toil. I would not by any means have my audience to conclude that no mining

metallic ores to remunerate you for your toil.

I would not by any means have my audience to conclude that no mining strata exist in Cornwall and Devon beyond the 12 miles zone to which mining operations have, for the most part, been hisherto confined. Primitive granite in abundance is found about Camelford, and stretching ensurant towards Launceston. I am not aware that the ground in that neighbourhood has been sufficiently examined to ascertain whether secondary granite, granular killas, greenstone, and elvan courses, form its outskirt, and fill up its hollows, as in the existing mining zone; should it prove to be the case, another mining district may hereafter be explored by another generation. Whether the mining zone be hereafter extended in width or not, space enough still exists, either untouched or partially explored, within its present limits, and in suitable strata, to furnish employment for future generations; and if the adventurer applies his capital judiciously in mining operations, and not in gambling speculations on the rise and fall in the price of shares, interchanging large premiums before any mine has been actually discovered, a fair return for his investment may be confidently anticipated. Money lavishly squandered in premiums is a least the mining interest, and should be kept in check by every lover of the mining interest, and should be kept in check by every lover of mining in Cornwell and Devon. I have conserved to address revealed.

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the mining interest, and should be kept in check by every lover of country and his class.

In concluding this introductory (as I hope it will prove) lecture of mining in Cornwall and Devon, I beg once more to address myself especially to those of my audience, belonging to this Institution, who are practically engaged in mining, either as workmen or agents. You live is a neighbourhood pre-eminently suited to acquire a practical knowledge of what has been brought before you to night—theoretical knowledge alone will only serve to bewilder you. If you store your memory with all the technical terms used by writers on goology and mineralogy, and neglect to observe, collect, and compare for yourselves, you may, indeed, be distinguished and extolled during a discussion in the lecture-room, but you will never benefit yourselves nor your employers. Go into the neighbouring hills, and collect specimens of all the varieties of granite; the whetstone of the western hills; the moorstone of our neighbourhood; the secondary granite, in which we find our rich deposits of tin and copper, and you will find varieties enough to gratify your curiosity. Learn from the cleavage, and other distinguishing marks to which class they belong, the barren orthe productive. Follow up your search until the shelves of your museum contain every variety of killas, clvan, and ironstone, connected with the lodes of tin, copper, and lead; and do not neglect to arrange the productive and the unproductive specimens in different groups. Examine carefully, too, the contents of the different sorts of lodes; compare the real gossans found on the backs of our rich lodes with the spurious kinds often exhibited as gossans; minutely examine the appearances of the veinstone (lode and in harren lodes, and in the neighbourhood of rich mineral deposits. found on the backs of our rich lodes with the spurious kinds often exhibited as gossans; minutely examine the appearances of the veinstone (lode stuff) in barren lodes, and in the neighbourhood of rich mineral deposits. Observe how the same elementary substances are affected by their proximity to, or distance from, these deposits. If you then keep in mind the three fundamental mining principles I have endeavoured to lay before you, and illustrate the geological character of the locality, the size, appearance, and contents of the lodes, and their direction, and learn to recognise them readily, by the practical proceedings I am now recommending, you will not fail, I think, to benefit yourselves and the mining interest of the community at large; while, by carefully recording and arranging new facts as they occur, new laws will, probably, be discovered, scientific knowledge advanced, and the way opened for profitable employment to succeeding generations.

#### IMPROVEMENTS IN MANUFACTURE AND APPLICATION OF PEAT.

In looking at the raw material (Class No. 1) at the Great Exhibiton we sought in vain for samples of the products of peat by the party whose name has become of late rather familiar to the public, from the expectations which certain announcements had led it to form, as to the discovery of an improved system of obtaining the very interesting products of that ma-terial. In this, however, we have been disappointed, as far at least as the exhibitor goes, but not as to the products and specimens of various ar-ticles obtained from peat; for there we find a very extensive collection, made chiefly from the same substance, according to the processes patented by Mr. W. B. Stones, of London, as a communication. It would take too much space to enter into an analysis of the numerous products and educts which are exhibited, nor, indeed, could we for the present undertake to assign the uses to which some of them may be applicable—having received from the gentleman who has prepared them the candid avowal, that for some of the bright and pure-looking liquids it yet remains for him or others to find a profitable application. There are some, however, which tor some of the bright and pure-tooking inquites it yet remains for him or others to find a profitable application. There are some, however, which are of much interest, and of which the use will be easily understood—such, for instance, as bi-sulphuret of carbon, made with charred peat instead of charcoal; a peat coke, impregnated with sulphur for making gunpowder; vegetable cerine for heel balls, varnish, &c.; valuable greases for curriers; a compound coke of peat and caking coal-dust, which has been highly approved of for fine mottallurgic purposes; and several sorts of manures, which the inventor has termed "humisate." Of this latter article we camber of the survey of the property of the property in geometric form which goes the property of the survey of the survey of the property of the property in geometric form which goes the property in goes to the property in ground the which the inventor has termed "huminate." Of this latter article we cannot refrain from saying a few words, at a time when every thing connected with agriculture, and the means we may have of contending with foreign produce, is of so much moment. In this instance, the inventor has had in view two most essential points in the matter of manure—an foreign produce, is of so much moment. In this instance, the inventor has had in view two most essential points in the matter of manure—an article inexhaustible in quantity and consequent cheapness, and composition, such as to suit every species of plant and every soil and climate, always adding really fertilising substance to the soil, accompanied by such agents as the soil may be deficient in, so that there shall be a constant production of the proper fluids which organic life requires to promote and support it, repudiating the use of certain repugnant matter as more exponsive than others which are more appropriate, and as communicating poisonous principles to the plant, though in appearance all obnoxious properties were in some instances destroyed—as, for instance, in the case of the treatment of night-soil with charred peat, of which we were favoured with a demonstration. A certain quantity of a black looking substance was brought to us, which we were told was night-soil, treated with charred peat powder. It was quite dry and free from smell; but, on its being mixed with a little lime and water, it again showed its abominable nature—the odour being completely infectious; so much so, that we shall not hesitate to give due praise to any one who shall contribute to prevent the use of such filth for the production of the bread and vegetable which we are to eat; nor can we but agree with the inventor of the "huminate," that the use as nutriment to plants of such matter as night-soil, putrified animal matter, bones, &c., instead of being used as manure for general purposes, may be altogather dispensed with; and we the more readily set up against such a practice, as we have been made to feel satisfied that Nature has amply provided the means of fertilising our lend far beyond what has ever yet been done, by the aid of chemical science, and with cheap and nobjectionable material, and which, in this instance, seems to be carefully observed; and we, therefore, call the attention of the agriculturist to this very inte whole world. We are assured that various soles of minimac, and thus sub-mitted to the judgment of those who are best able to appreciate its merits. At all events, we feel confident that the time is come when we shall no longer witness the loathsome practice of importing masses of human bones to serve as manure, and otherwise using in this country all that is most repugnant as nutriment for the production of the first necessaries of life a practice as disgusting and uninatural as any with which we could have to reproach the most barbarous of nations.

MASTERS AND CO.'S PATENT FREEZING-MACHINES AND ÆRATING WATER-MACHINES—Amongst the various inventions exhibited at the Crystal Palace, there are few, in our opinion, more truly wonderful than the production of ice in one minute, without the aid of ice, by Masters and Co.'s patent freezing—machine. This machine is the same her Majesty was most graciously pleased to admire so much on its being exhibited to her by the inventor, Mr. Ma sters, of 309, Regent-atreet, on whom the highest encomians were passed for the perfection to which this apparatus was brought, which forms one of the articles of utility, as well as for exhibition, in the Crystal Palace; for we understand that 100 quarts of desert ice are made by it daily for the visitors. Masters and Co.'s erating water-machine is, as may be inferred from its title, for the purpose of serating water, wine, dull ais, &c., and to make it as brisk as champagne by fully charging it with carbonic acid gas; and by using some choice syrups, manufactured by Masters and Co., from English and foreign fruits, the most delicious serated summer boverage can be made. It is of much value modicinally; for by its aid that now very expensive, though useful preparation, called Fluid Magnesia, may be prepared at the rate of one penny per quart, which is now sold at Ss. 6d., and also the various saline carbonated waters.

Bew Patents.

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SPECIFICATION ENROLLED DURING THE PAST WEEK.

EYALD RESTS. of Finabury-square, merchant: For certain improvements in refining steel. Specification—3. I take bars or lumps of raw or crude steel (particularly puddled steel), and in order to the refining of them, place them in a furnace or other heating chamber, out of the reach of any injurious action upon them by the atmospheric air, and there subject them for a time to a temperature not exceeding the melting point of steel. Tuse for the purpose a welding furnace, such as is ordinar ily employed in puddling from only that the bed is lowered and the grain brought from 2 foct to 4 feet below the level of the fire-bridge, and the ash-pit in provided with an iron door, by which it may be entirely closed when required. When the furnace is int all heat, I place the bars or numps of raw or crude steel on the bed of the furnace, but at distances apart, so that they may nowhers touch such other; and during the whole of the refining process, the first place is kept fully charged with coals or other fuel. Then, in order to exclude as much as may be the access of oxygea, I carefully late any crevices there may be, in the working door or elsewhere, with wet clay, and so regulate the draught of the furnace by means of the sah-pit door and flue-damper—closing them more or loss, or altogather, a may be requisite—that the heat shall never attain to the molting point of steel. A sufficient practical test of this is furnished by the colour of the fame, which is, with this view, for lardly red colour, the heat will not be in excess of what is required. I usually a from 900 lbs. to flood bis, of raw or crude steel, is bare of a in. by is in., into a furnace in abundance, while the exygen of the atmospheric air is entirely prevented from acting on the steel; and the product is steel of a very fine uniform grain. And baving now described the nature of the said invention, and in what manner the same is to be performed, I declare that I do not restrict myself to the use of any particular form of furnace, nor to the subjection of th

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

J. Banister, of Birmingham, brass-founder, for improvements in the manufacture of metallic tubes for steam-boilers and other uses.

R. A. Kennedy, of Manchester, cotton spinner, for improvements in machinery applicable to engines for carding cotton and other fibrons substances.

W. H. F. Talbot, Layocak Abbey, Ohippenham, Wills, improvements in photography.

J. E. Lightfoot, of Broad Oak, Accrington, Lancaster, calico-printer, and J. Higgin, of Coburg-terrace, Manchester, chemist, for improvements in treating and preparing certain colouring mattess to be used in dyeing and printing.

F. C. Calvert, of Manchester, chemist, for a new application of certain fluids for manufacturing extracts applicable to the processes of dyeing, printing, and tanning, and in the apparatus connected therewith.

J. Chatterton, of Birmingham, agent, for certain improvements in protecting insulated electro-telegraphic wires, and in the nethods and machinery used for the purpose. Felix Charles Vicior Leon Levacher D'Urcle, of Paris, France, farmer, for improvements for increasing the produce of autumn wheat.

E. L. Berthon, of Farcham, Hants, clerk, master of arts, for improvements in boats, and in Instruments for sounding and indicating the rise and fall and rate of currents.

William Birkett, of Bradford, York, agent, for improvements in obtaining soap from wash-waters.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

J. Tennant, Shields, Monkton, Ayrshire, self-cleansing dia mond toothed wheel grubber —Groucock, Copestake, Moore, and Co., Bow-churchyard, stays for morning dresses.—S. Cocker and Son, Sheffield, centripetal fish-hook.—J. Blackey, Haitisz, railway-ticke preserver.—H. Hicks, Davies-street, Berkley-square, Hick's otium saddle.

PROVISIONAL REGISTRATIONS.

W. E. Wilson, Birmingham, grease cock.—J. Tetry, and T. Powell, Birmingham, rotary action safety-lock.—S. Plimsoll, Sheffield, exterior corner file; interior corner file; conceve file; also, moulding file.—Bloomer and Phillips, Sheffield, spring and lever brace pad.—J. Cooper, Towerhead, Somerset, compound geometric and spiral chuck.—Mechanics' Magazine.

IMPROVED LEAKAGE PLUG FOR TUBULAR BOILERS.—Measrs. Jones and Mc Lennan, of Whitehaven (the latter the engineer of the Whitehaven steamer), have registered an improved mode of stopping leakage of tubes through bursting in steam-boilers. The usual imperfect remedy for such an accident was a wooden plug, the driving home of which is always attended more or less with danger. The improved method is an iron rod the length of the tubes, having at each end a washer of vulcanised India-rubber secured on it by nuts, and on a tube leaking this rod is inserted. As the tube fills with water the leakage is immediately checked by the pressure on the washers rendering the tube steam and water-tight, and the pressure at both ends of the rod is equal. It has been tried with success on the boilers of the above steam-boat, and has received the most favourable consideration of steam-ship engineers.

MORUMENT TO NEWCOMEN, THE ENVENTOR OF THE STEAM-ENGINE.—A subscription is being entered into by scientific men in the county of Devon, towards erecting a monument to the honour of Newcomen, the Dartmouth frommonger, the inventor of the steam-engine, whose grave is now without any memorial.

any memorial.

Mr. Fox, the partner of Mr. Henderson, the constructors of the Crystal Palace was formerly a teacher in the Liverpool Mechanics' Institute.

A discovery has just been made at Hermiones, in the Peloponnesus, of a spring of water which, when mixed with oil, becomes at once a kind of soap. A sample has been submitted to chemical analysis.

A system of banking is discovered to have prevailed in Babylon at least 700 or 800 years before the Christian era.

TONOMIC MINING ASSOCIATION.—
This ASSOCIATION has been Established SIX MONTHS—its objects being the PURCHASE of MINING SHARES for INVESTMENT of a PROFITABLE KIND: the has been very successful, having made considerable profits. A Dividend, at the rate of 20 per cent., will be declared every three months after this year. The contributions are 5s. per month per share: present price £2 10s.
For particulars apply to Mr. Divera, Great Bell-alley, Tokenbouse-yard of the first of S. Richardson, 18, Old Broad-street, London.

RENAULT LIME QUARRIES COMPANY

CONDUCTED ON THE COST-BOOK PRINCIPLE,
Which exempts shareholders from any liability beyond the amount of their shares, and
enables them to withdraw at any time by giving notice to that effect.
Prespectaces, containing the Bules and Regulations in full, Maps, and every information, may be obtained at the offices, 36, Bucklersbury.

JAMES A. MAY, Purser.

THE MACCLESFIELD COPPER MINE,
IN THE PARISH OF BUCKFASTLEIGH, DEVONSHIRE.
In 9100 shares, of £1 esch—puld-up.
Inspecting Engineer—Adam Murray, Jun., Esq.
Piuver—M. C. Robins, Landresu, Ashburton.
Secritary—Mr. C. Bagley.
OFFICES,—8, GUILDHALL CHAMBERS, BASINGHALL-STREET.

Applications for the remaining shares to be made to Messre. Lind and Ricki rukers, 3, Eank Chambers, Lothbury; or to the Secretary, at the offices of party, where plans and specimens of the are may be seen, and prospectues obli-

NELL TOR SILVER-LEAD MINE.—The Promoters of this Mine being desirous that it should be carried out in a legitimate and business-like marmer, with the spirit of pradence and economy, have made ARRANGEMENTS with Mr. EVAN HOPEINS to FORWARD regular COPIES of the RECORDS of their PROCEDINGS to his OFFICE, 13, Austinfriars, in order that this Gentleman may not only from periodical inspection, be able to high of their Progress, but be made acquisited also with their daily operations, for the autifaction of distant capitalism who may consult him. There are 400 shares remaining for disposal, applications for which mustbe made scheet to Jasze Coorre, Eq., of 4. King-street, Cheapside, London; 1966 St. J. July, the secretary, 3, Castle-terrace, Exeter.

Transfer, 8, John & Chamberry, 6 or 10 the Secondary, 8 the offices of the Company, where plasm and specimens of the new may be soon, and prospectuses obtained.

NELL TOR SILVER-ILEAD MINE.—The Promoters of this Mine being desirous that it should be exerted out a legitimate and business. Eval. Stock Broker, 8, Sartiadonon-kans. Offices, 8, Sherborne-lane, City.

RELL TOR SILVER-ILEAD MINE.—The Promoters of this business. The property of the Mine being desirous that it should be exerted out a legitimate and business. Part of the Mine of the Property of the Mine of the

ON THE COST-BOOK SYSTEM.

of 10 shares each, in 10,000 shares, of which 6000 are tak

In certificates of 10 shares each, in 10,000 shares, of which 6000 are taken by the present advanturers.

These mines are situate in the parish of St. Hilary, in the county of Cornwall, and comprise three extensive setts, formerly known as Park Halamanning and Croft Gothal, and Old Halamanning and Retallack, and an additional sett, called Calepso, which have been purchased by the present adventurers. The iongsh of ground, from east to west on the course of the lodes, is it mile, and extends upwards of half a mile from north to south.

A considerable sum has been laid out by the present adventurers, under the advice of the late Capital Edward Thomas, and it is anticipated that in September next the mines will be drained and the levels cleared.

The longth of mineral ground laid open is 700 fathoms, and as soon as the mines are drained and cleared a great number of tributers will be set to work. In clearing the addit level copper ore has been found standing worth £30 per ton, and pitches are now set on tribute in the adit level. The large tin capel lode is standing in whole for hundreds of fathoms in length and throughout the mines is depth.

Beyond the shares belonging and appropriated to promoters, all the purchase-money for the mines has been provided for out of the calls already made, with the exception of £1000 to be paid to the wendors out of the proceeds of the mine.

The present adventures having satisfied themselves that every thing reported at the commencement respecting these mines has, thus far, been fully borne out, and that by the provision of a suitable capital, there remains no question of large returns being shortly effected, they have determined, in order to expedite the operations, to raise the required capital by the issue of 4000 new shares, at £3 per share, and upon which it is propused to take a deposit of £2 per share, and the remaining £1 in two months, if required.

Applications for the remaining shares may be made to Messrs. Johnson, Longdon, and Co., stock and sharebrokers, 22, 70 kenh

CARDIGAN SHIRE MINING ASSOCIATION

ARDIGAN SHIRE MINING ASSOCIATION
In certificates of five shares each, in t0,000 shares, of £2 each.
No further call, and conducted on the "Cost-book" Principle.

COMMITTEE OF MARAGEMENT.

GEORGE HARRIS CHILD, Esq., 48, Mark-lane.

THOMAS HAWES, Esq., Glib Chambers, Regent-street,
GEORGE KELMORE, Esq., Millbank-street, Westminster.
HENRY FRANCIS HOME, Esq., 166, Gloucester-terrace, Hyde-park.
JOHN PETER KNIGHT, Esq., Hiberaia Chambers, London-bridge, Southwark.
BANKES-Messrs, Rogers, Olding and Co., Clement's-lane, Lombard-street.

OFFICES,—No. 32, GREAT WINGHESTER-STREET.

Prospectures and Reports can be obtained on application at the Company's efficer.

33, Great Winchester-street, London.

THE DEVON HAYTOR GRANITE COMPANY

In 20,000 paid-up parts, or shares, of El each, without further liability. So OFFIGES, -59, KING WILLIAM STREET, CITY.

OFFICES,—59, KING WILLIAM STREET, CITY.

This COMPANY is FORMED to WORK the colebrated HAYTOR GRANITE QUARRIES, situate at HAYTOR, SOUTH DEVON, which comprise 10 of the largest quarries in England. They are held under lease direct from the Duke of Someraet, at a low animal rent without royalty.

It is well-known that the granite from these quarries is superior to that of any other in England or Sociland, both in hardness and durability, and it insa already been used in London Bridge, Goldsmiths 'Hall, Christ's Hospital, Flahmongers' Hall, &c.

The quarries have been rescently re-opened, and arrangements usade for furnishing an extensive supply, and embacking in corresponding contracts, for which purpose additional capital is required.

The amount now proposed to be raised will enable the Cempany fully to develops the quarries; and after the closest investigation, the Directors feel perfectly justified in anticipating a nett profit of from 30 to 25 per cent.

For prospectuses, forms of application for shares, and all other information, apply to the purser, Mr. A. W. Pollock, at the offices of the Company; to the solicitors, Messra. Terrell and Matthews, 30, Basinghall-street; or Mr. R. E. Little, stockbroker, No. 11, Warnford-court, Throgmorton street.

Wamford-court, Throgmorton street.

HENDRE ISSA COAL COMPANY.

Capital £10,000, in 200 shares, of £50 each.—Deposit £10 per share.

ON THE COST. BOOK PRINCIPLE.

Temporary Offices, at Mr. Peter Broad's, 29, Tavistock-street, Covent-garden.

Bankers—Commercial Bank of London, 5, Henrietta-street, Covent-garden.

Solicitor—Thomas Moseley, Ess., 18, Badford-street, Covent-garden.

Solicitor—Thomas Moseley, Ess., 18, Badford-street, Covent-garden.

These COLLIERIES are celebrated for the PRODUCTION of a superior quality of ANTHRACITE COAL, and have been estimated to contain 2,000,000 tons of available coal, which, from the nature of the ground and Jecelity, can be worked to any sextent, at a trifling outlay. Besides the extensive consumption in England by malaters, brewers, limers, distillers, and others, it is exported extensively to Iroland, France, Germany, Russia, and other parts, and to Ireland alone the exportation unmanally is above 400,000 tons. Several private gentlemen have agreed to parchase shares, and a few only remain for allotment to approved applicants.

The average profit may be safely estimated at £35 per cent., or about £17 los. per annum in respect of £6.01 share.

The superior of competent gentlemen, and samples of coal, may be seen at the offices, and prospectuses forwarded on application to Mr. Feter Broad, 29, Tavistock-street, Covent-garden, who will receive applications for shares until the 23d of June, when the allotments will be made and eloced.

GALLT-Y-MAEN SILVER-LEAD MINING COMPANY, LORDSHIP OF MOWDDWY, COUNTY MERIONETH.

NOW IN WORK ON THE COST-BOOK PR INCIPLE.

In 12,000 shares, of £3 ench.

Deposit £2 per share, to be paid upon transfer.—No further call to be made, unless with the consent of the shareholders in General Meeting assembled.

COMMITTEE OF MANAGEMENT.

A. A. DORIA, Eq., Lincoln's Inn.

WILLIAM WATSON JEFFREY, Eq., 4, New Broad-street.

JAMES T. KIRKWOOD, Esq., Woodland-terrace, Greenwich.

CHARLES MAPLESTONE, Esq., 27, Bucklersbury.

HENRY MOSS, Esq., 36, Church-court, Cloment's lane.

(With power to increase their number.)

HENRY MOSS, Esq., 3, Church-court, Clements-Lane.

(With power to increase their number.)

Manager of the Mines.—Mr. Charles Samuel Richardson, 15, Old Broad-atreet.

Soliciton—Edward Sanienc, Esq., 13, Scott's-yard, Bush-lane.

Bankers—Mosars. Martin, Stone, and Martins, Lompard-street.

Bankers—John Guillemard, Esq., 5 Dord Green, Hanmersmith.

Putters—A ustin Edwards, Esq., 5 Dord Green, Hanmersmith.

OFFICES,—3; SHERBORNE-LANE, LONDON.

The Galli-y-Maen sett extends over about 292 acres of rich mineral land, and is situate in the Jordship of Mowddwy, in the county of Merioneth; it is held under lease from the lord of the said manor, at a royalty of 1-14th, for a torm of 21 years, and a sleeping rent of £100 per annum.

Galli-y-Maen is in the vicinity of the celebrated Great Cowarch Silver-Lead Mine, which is producing large quantities of ore, yielding 70 to 30 per cent. of lead, in addition to a considerable quantity of silver.

Prospectuses and all other information to be had apon application at the Offices of the Company; or to John Guillemard, Esq., Stock Broker, 3, Bartholomow-lane.

Offices, 3, Sherborne-lane, City.

TEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MORTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to GEVLON, MADRAS, CALCUITA, PENANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from Sues on or about the 10th of the month.

BOMES A. Passengers for Bombay can proceed by this company's steamers of the 39th of the month, to Malta, thence to Alexandria by her Majesty's steamers, and from Suez by the Honousable East India Company's steamers.

MEDITERRANEAN.—MALTA—On the 30th and 30th of every month. Constantineral—On the 39th of the month. ALEXANDER—On the 30th of the month.

SPAIN AND PORTUGAL.—Vigo, Oporto, Lisbon, Cadir, and Gibraltar, on 1107th 17th, and 37th of the month.

For plans of the reseels, rates of passage-money, and to secure passages and ship eargo, apply at the company's offices, No. 123, Leadenhall-street, London; and Oriental-place.

TO COLLIERY PROPRIETORS.—BY HER MAJESTY'S ROYAL LETTERS PATENT.

DESSEMER'S PROCESS FOR CONSOLIDATING COAL.

—By this Patent Process SMALL COAL is FORMED into BLOCKS, without any extraneous or foreign matter (and this is the only patent), as, during the process, the adhesive properties of the coal are rendered available in the formation of the block, which can be made of any singe or size, at the option of the manufacturer.

Colliery proprietors experiencing a difficulty in disposing of their small coal through their present channels of trade, will find this a ready and profitable means of producing an urticle suitable for domestic purposes, and consequently a quick market for its sale. This patent also secures to the licensee a cheap method of procuring gas.

The management of this Patent for South Wales has been confided to the underready, who will be happy to afford any information to parties wishing to entertain a proposition for License; and he, at the same time, cautions all parties against infringing this Patentight, as such will render themselves liable to an action at law, it being the determination of the Patentice to preserve his rights in all their integrity.

A. S. LIVINGSTONE, Civil Engineer, Swansa, TO COLLIERY PROPRIETORS.—BY HER MAJESTY'S ROYAL LETTERS PATENT

TO MINING PROPRIETORS AND OTHERS, EDGE AND SON ARE THE ORIGINAL INVENTORS OF THE FLAT CHAINS. EDGE AND SON ARE THE ORIGINAL INVENTORS OF THE FLAT CHAINS.

LOGE AND SON, PRACTICAL MANUFACTURERS OF FLAT AND SOND CHAINS OF EVERY DESCRIPTION.

COALPORT. COALBROOKDALE. SHE OPERING.

COALPORT. COALBROOKDALE. SHE OPERING.

Espectfully urgs the attention of Proprietors of Mines and Mineral Works to the SUPERIORITY of their CHAINS.—SPECIMENS of which may be INSPECTED at their HALL, in Class 23, at the KAHIBITION.

They are the original inventors of the FLAT CHAIN, which has now been in use for nearly 40 years, and is acknowledged to be the best band for Mining purposes; they continue to manufacture them of the first quality, and for excellence of material, workman-ship, and durability, they may challeuge any house in the trade.

Their improved ROUND CHAIN is superior to the old oval chain, being made straight on the side, and lapped over further for the well of they are capable of a far greater strain. This principle they have also applied to CABLES with complete success, and it only requires to be better known to be more generally adopted.

STIRLING'S PATENT YELLOW METALS—Adapted for SHEATHING, BOLT STAVES, BOLT NAILS, DECK NAILS, as reported on by the late Mr. Owen, Supervisor of Metals to the Admiralty; also for PROPELLERS, FRAMEWORK SCHEWS, PISTONS, CYLINDERS, COCKS (particularly where there is exposure to corrosion), RAILWAY CARRIAGE AXLE BEARINGS, and for all machinery subject to friction.

AGENTS.

Messrs. JOHNSON, 166, Buchanan-street, Glasgow.

Messrs, JOHNSON, 166, Buchanan-street, Glasgow.

Applications for licenses and other information to be addressed to the undersigned of Foundary and Manufacture of the Country of the Coun

IVERPOOL COLLEGE OF CHEMISTRY,—Recognised by all the London Medical Examining Boards, and the Apothecaries' Hall of Ireland Professor—Dr. SHERIDAN MUSPRATT, F.R.S.E., &c.

ANALYSIS and ASSAYS, sent to the above address, will receive IMMEDIATE ATTENTION.—Fees for Analysis, and for Students working in the Laboratory may be had on application at the College.

ATTENTION.—Fees for Analysis, and for Students working in the Laboratory may ad on application at the College.

At a Court of Examiners, held this day, is was resolved,—That the Royal College themsistry, London, and the College of Chemistry, Liverpool, be for the future resognized a Schools of Practical Chemistry, subject to the Regulations of this Court.

(Signed) HENRY BLATCH, Secretary.

EXHIBITION OF 1851.—T. P. AUSTIN, proprietor of PEELE'S COFFEE-HOUSE, FLEET-STREET, bega respectfully to inform his riends and the public generally, especially those interested in the forthcoming GREAT EXHIBITION, that he has recently NEARLY DOUBLED THE SIZE OF HIS BSTA-BLISHMENT, which will enable him to afford increased comfort and convenience to those honouring him with their patronage. The FILES OF NEWSPAPERS and PERODICALS, for which Peele's Coffee-house is so colebrated, containing all the reports of the Royal Commissioners, will be available to those visiting this satablishment.

"," The Mining Journal, in addition to all Publications connected with the Mining the creats, are regularly filed.—Bed and Breakfast, 3s., or £1 per week.

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THE LATE DISASTROUS ACCIDENT ON THE LANCAfive persons were killed and many others injured) may show the property of effecting
An INSURANCE with the RAILWAY PASSENGERS ASSURANCE COMPANY,
which is established for the purpose of affording COMPENSATION in cases of personal
INJURY, and the PAYMENT of a CERTAIN SUM in the event of DEATH, by RAILWAY ACCIDENT.
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WAY ACCIDENT.

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Prospectuses, giving the rates of premium, and also particulars of the numerous companies of the properties of the numerous companies of the properties of the numerous companies of the properties of the numerous companies. Alexander Beatrie, Secretary.

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CEWERAGE OF LONDON.—The ATTENTION of the COMMISSIONERS appointed to determine upon the MOST EFFICIENT MATERIAL for the CONSTRUCTION of the SEWERS OF LONDON, a particularly directed to the ASPHALTE OF SEYSSEL, which more than any other material is applicable to the CONSTRUCTION and ANTERNAL COATING of BERIOR CULVERTS and OTHER CHANNELS for DRAIMAGE.

The experiments made by the Royal Artillery on the embrasures of Phymount Citagle, constructed of Seyssel Asphalte Brickwork, under the orders of the Hon. Board of Orders

constructed of Seyssel Asphalte Srickwork, under the orders of the Hon. Board of Ordnance, have fully proved the superiority, adhesiveness, and strength of Seyssel Asphalte
over all other comentilions compositions. A printed account of these experiments can
be had on application to
Seyssel Asphalte Company—"Glaridge's Patent"—Etablished 1838.
Note.—The application of the Asphalts of Seyssel is specially recommended by the
Commissioners on the Fine Arts for covering the ground line of brickwork in marshy
situations, and it has been suggested that it would be peculiarly applicable for covering
the areas of closed grave yards, and for the construction of catacousts.

the areas of closed grave yards, and for the construction of catacombs.

VAUX HALL—BELL'S LOCOMOTIVE BALLOON.—On MONDAY, June 16, Mr. BELL'S NEW PATENT LOCOMOTIVE MACHINE will make an ASCENT from these GARDENS for the excond time this season, the beforeconstate of the weather on Monday has having processed time this season, the beforeconstate of the weather on Monday has having processed time this season, the beforeconstated the intropid projector from fally testing the propelling in own of the season at the propelling in own of the propelling of the propelling of the propelling in the propelling of the propelling of

die die VVIII von AVIII e Praestle von de Heine gene en von VVIII en de VVIII	ARTICLES THE RELEASE	HILE BUILDING	SHARE	Appropriate the propriet of the second	3,100 Eur		4000 West Wheal Rus	eeell	14 111 14 15	Present
Mares.  Mines.  1120 Alfred Consols (copper). Philiack 1246 Alfr-y-Crib (sliver-lead), Talybor 1624 Balleswidden (tin), St. Just 1600 Bedford United (copper), Tavisto 1600 Bedford United (copper), Tavisto 1600 Callington (lead and copper), Onl 1700 Conductor (copper), Gwennap, Cort 1700 Devon Great Consols (copper and tin), Camb 1700 Canter (copper and tin), Camb 1700 Canter (copper), Pool, 1700 East Wheal Rose (silver-lead), Me 1700 Consols (copper), Pool, 1700 Gerat Consols (copper), Great Work (tin), Germes 1700 Great Consols (copper), Great Work (tin), Germes 1700 Great Consols (copper), Great Work (tin), Germes 1700 Great Consols (copper), Great Hardelpot (lead), Cardiganshire, Work (din), Germes 1700 Great Work (tin), Germes 1700 Great Great Work (tin), Germes 1700 Great Work (tin), Germes	nt, Wales	Paid.  3 5 11‡ 182	8 6 2 8	0 9 to April 0 5 to March 5 0 to May	10 10 71 210	Present Price 15½ 16½ 7½ 205 210	1024 West Wheal Tre 1024 West Wheal Vir 1024 Weston (lead), ( 1079 Wheal Adams (h 1000 Wheal Agar (co) 300 Wheal Arthur (h	usury (copper), Gwineas gin (tin), Sancreed	134 16 6 54 54 17 40	
Chyprass, St. Enoder, Cornwall Constort (copper), Gwennap, Corn Condurrow (copper and tin), Cam Dolconth (copper and tin), Cam East Pool (tin and copper), Pool,	nwail sborne, Cornwall avistock orne.	54 . 65 . 20 . 20 . 252	. 10 10 . 11 0 . 224 10 to March . 856 14 to 1847 . 233 0 to 1843	8 0 to May	12‡ 50 110 300	110 300 15 165 170	3072 Wheal Augusta ( 240 Wheal Bal (tin), 5000 Wheal Caradon ( 256 Wheal Carpenter ( 1024 Wh. Carpenter ( 124 Wh. Castle and E	tin), St. Just	1 11 2 16 17 1 1 1 1 6 7 20 3 20	, .
4 East Wheal Crofty (copper), Hlog 9 East Wheal Rose (sliver-lead), No 4 Fowey Consols (copper), Tywardr Goginan (lead), Cardiganshire, W 6 Great Consols (copper), Gwennan Great Work (tlu), Gerunes Harodshot (lead), near Liskeard,	pan, Cornwall	. 125 . 50 . 40 	295 0 to 5th April 440 0 353 6 8 to January	15 0 to May	550 30 200 200		1024 Wheal Chiverton 1024 Wheal Crebor (co 1024 Wheal Cupid (co 3000 Wheal Dora (tin: 182 Wheal Elizabeth	(copper)	1 1 is 2 1 2 3 6 19 8	
Lewis (tin and copper), St. Erth Lewant (copper and tin), St. Just. Lisburno (lead), Cardiganshire, W North Pool (copper and tin), Pool North Roskenr (copper, Camborn North Wheal Basset (copper and ti	/ales	75	1 0 to 9th Feb 77 0 to 5th April 620 0 390 0 to 4th April 50 0 to February 1 to 5th April	0 10 to April 5 0 " 20 0 " 15 0 " 2 10 to May	20¶ 160 700 500 155		1024 Wheal Forteache 764 Wheal Franco (co	(copper), Tavistock pper), near Tavistock in), St. Agnes and copper), St. Hillary oar Oakhampton ppper), Camborne d), near Tavistock	5 1t 14t 8 8t	•••
8 Far Consols (copper), St. Blazey  Perran St. George (copper and tin)  Providence Mines (tin), Uny Lelan  South Caradon (copper), St. Cleer  South Tolgus (copper), Redruth, Ce  Bouth Wheal Frances (copper), Ille  Spearne Consols (tin), St. Just, Cor	ornwall	. 554 . 214 . 204 . 24 . 16 . 80	374 0 1 5 to March 11 17 to February 250 0 21 10 to 5th April 89 15 2 15	0 10 to 4th June 1 0 to May 2 10 2 10	650 40 25 135 165	125 130 165 260	6000 Wheal Langford (2000 Wheal Langmaid 1000 Wheal Lemon, Ge	copper and silver-lead) (lead)	133 11 2	4
Stray Park and Camborne Vean (c Tamar Consols (silver-lead), Berra	copper), Cornwall	. 15	104 0 to February 11 10 2 11 to July, 1847	5 0 to May	80 14‡ 4 4 4 5 14‡	4,5	990 Wheal Mary (cop) 1024 Wheal Mary Ann 1024 Wheal Mary Emm 1024 Wheal Neptune (c 1080 Wheal Oak, near l 3000 Wheal Penhale (k	er), Redruth	16 74 14 34 34 2 3 13 14	Market Ma Market Market Ma Market Market Ma Ma Market Market Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma
Trehane (ellver-lead), Meniteniot Trehane (ellver-lead), Meniteniot Treasreau (copper), Gwennap, Cor Trethelian (copper), Gwennap, Cor Treviskey and Barrier (copper) wellington (copper & thi,) Perrana West Caradon (copper), Liskcard, Wheal Bases (copper), Hogan Wheal Brewer (copper), Gwennap, Wheal Buller (copper), Redwith	athnoe Cornwali	180 64 20 104	402 10 to 5th April 221 15 2 2 6 155 5 to February 225 0 to 1st April 5 0 — 142 10 to 5th April	6 10 to May 0 5 to March 2 10 to May 10 0 to 3d June	200 84 1074 410 64	200 195 106 410	128 Wheal Pollard (co 210 Wheal Prospect - 5000 Wheal Providence 256 Wheal Prudence ( 4000 Wheal Russell (co) 5000 Wheal Ruth (tin)	pper), St. Cleer South Sydenham copper), St. Agnes pper), Tavistock Shenetor	151 10 4 7 24 3 25 5 11 14	.: *
<ul> <li>West Caradon (copper), Liskeard,</li> <li>Wheal Basset (copper), Gwennap,</li> <li>Wheal Bruber (copper), Gwennap,</li> <li>Wheal Buller (copper), Redruth</li> <li>Wheal Friendahlip (copper) Devon.</li> <li>Wheal Friendahlip (copper) Devon.</li> <li>Wheal Goldon (lead), Feranzabulos</li> <li>Wheal Argaret (tin), Uny Lelant</li> <li>Wheal Margaret (tin), Uny Lelant</li> <li>Wheal Owles, St. Just, Cornwall</li> <li>Wheal Resth (tin), Uny Lelant</li> <li>Wheal Resth (tin), Uny Lelant</li> </ul>		. 120 . 2 . 79 	2325 10 0 10 to March 4 0 to 5th April 167 0 to March 15 5 to 5th April 22 10 to February	0 5 to May	7½ 20 140 60	59 60	1024 Wheal Sophia (all 1024 Wheal Speedwell ( 1024 Wheal Stanagwyn 1000 Wheal Susan, Bree 1024 Wheal Sydney, Pl	ver-lead), Lezant copper and tin) per), St. Erth (copper), St. Stephen's age and Crowan ympton copper), Stoke Clims.	7 7	
Wheal Seton (tin and copper), Cam Wheal Trelawny (aliver-lead), Lisi Wheal Tremayne (tin and cop.), Gw	hborne, Cornwall	107 31 9	190 10 to 5th April 26 10 4 5 to February Shares.	5 0 to April 2 0 to May 0 15 ,	200 51 20 20	Present Prise.	512 Wheal Trefusis (co 1024 Wheal Trefusback 256 Wheal Tremaine ( 3300 Wheal Trescoli (ti 4224 Wheal Trewane (s 267 Wheal Tryphena	opper), Gwennap (copper), Stythians copper), St. Ervan n), Lanivet, Bodmin liver-lead), St. Kew (tin and copper)	7½ 17 18 5 5 11 2½ 3 1½ 1½ 25 40 18½	Marina Ma Marina Marina Marina Marina Marina Marina Marina Marina Marina Ma Marina Marina Marina Ma Ma Marina Ma Ma Marina Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma
Appledors (silver-lead and cop.) St. Balnoon Consols (tin), Uny Lelant- Bargally (lead), Cairnsmore Barristown (lead), Carrick Bawden (silver-lead) St. Teath Berriow (copper), Liakcard Bishopston (silver-lead), Glamorgar	51 5 51 5		1024 Kingsett and Bedf 786 Kirkcudbrightshire 1024 La Min (Gwinear), 1742 Lamherooe Wheal 5000 Lampen Consols (c	(lead), Kirkcud	4 2 9 4 3 6 10 11	2	1024 Wheal Uny (tin an 1024 Wheal Venton (sil- 1000 Wheal Vincent (tin 128 Wheal Violet (tin	per), Redruth d copper), ver-lead), Liskeard n), Alternum and cop.), St. Stephens Wicklow	2 5 5‡ 34 6‡ 74 6↓	
Black Burn, Alston, Cambertand Black Craig (lead), Kirkeudbrightah Blaenavon (Iron), South Wales Bodmin Consols (lead), Wadebridge Bodmin Moor Consols (tin and copper Bodmin Wheal Mary (copper), Bodr Bolanowe	100 11re . 5	4 10	3600 Llynvi Iron (Iron) 5000 Low's Patent Coppe 6000 Marke Valley (copp 5000 Mendip Hills (lead)	), Uny Leiant 5, , Cardiganshire 16, , Cardiganshire 5, , cardiganshire 5, , , , , , , , , , , , , , , , , , ,	0 50 7 10 0 3½	31 4	Shares.  5000 Alten Mining Com; 12000 Annotto Bay Minin 19000 Brazilian (copper 10000 Brazilian Imperial 12000 Cobre Copper Com	FOREIGN MINES pany (copper), Norway g Association (copper), J, South Australia (gold), Brazil pany (copper), Chili sociation (ron & coal), N Association (silver), Ger	141	3
Bolowali and Nanpean (tin), St. Jus Boringdon Park (aliver-lead), Plym Boscaswell Downs (St. Just), tin Boscon (tin), St. Just. Bosom (tin), St. Just. Bottle Hill (copper) Plympton Bridford Consols	12½ 12½ 13	5	2000 Mining Co. of Irelan 1024 Moditonham & Mar 2000 Molland	opper), St. Hilary ,, near St. Austell 22 nd (copper, &c.) rabro'(copper & lead) and copper)	54 30 7 54 1 24 3	1	12000 Liguanea and Gene	rai mining Company or	Jamaica i	01.0
British Iron, New, regis. (Iron) Ditto ditto, scrip Bronfloyd (lead) Bryn-Arian (lead), Cardiganshire Bryntail, Llanddoes, Montgomeryshin Budnick Consols (tin), Parrangabuk	10 10 10 12 14 12 14 17 18 17 18	7 74	320 Nansegollan (fin ar 3000 Nanteos (lead), Car 3000 Nant-y-Car (copper 5000 New Copper Bottom 2048 New East Crowndal 1024 North Ruller (copper	diganshire	30 551		5051 Mexican Company 20000 Mexican and South 5000 National Brazilian 104000 North British Aust 7000 Royal Santiage (co 11000 St. John del Rey (g	(silver), Mexico American (copper), Mex (gold), Brazil ralasian (copper), S. A. ipper), Cuba dolad brazil dol	\$ New Zea. 1	4 4 4 2 2 2 3 7 4 7 18 11
Butterdon (lead), Menheniott  Butlel Consols (aliver-lead), Cardigan Cac-Gyson (silver-lead), Cardiganshi Calstock United (copper)  Cally (copper and lead), Kirkcudbrigi Camborne Consols (copper), Camborn Cameron's Steam Coal (coal), Swans	re 5 6		256 North Tolgus (coppe 262 North Wheal Leisur	nd copper), St. Just. is (silver-lead & cop.) and copper), Redruth ir Gt. South Tolgus 5 ry, Redruth 9	16			NISH STEAM-E	NGINES.	120701
Cally (copper and lead), kirkcudorigi Camborne Comaols (conport), Cambor Cameron's Steam Coal (coal), Swansa Caradon Great Cons. (cop.), Linkinh Caradon Vale (copper and lead), St. Zarbona (til and copper), Crowan Carn Brea (copper and tin), Illogan Jarn Galver, Morval. Carn Valley, St. Dennis Zarthew Consols (cop. & lead), Wadebr Jarthew Consols (cop. & lead), Wadebr	1ve 24 14 5 5 15 100 105 1 2 ridge 4 6	18	1024 North Wh. Robert (c 2048 Okel Tor (lead) 512 Old Brimpts (tin), Lj 256 Old Wheal Basset (c 1026 Pendarves Consols (c 1000 Pendarves and St. Ar 406 Penhauger	opper), Walkhampton  odford, Ashburton  opper), Redruth  toopper), Camborne  abyn (tin and copper)  en (lead)  3	12 24 6 11 8	1940	Mines. Engines.	53 Load 554	g have exceeded the average of the sump. lifted I for of coal by consuming the sum of a bush.com	as Life
Darn Valley, St. Dennis- Zarthiew Consols (cop. & lead), Wadebr Zarvannali (copper), Gwennap Zassandra Anne (end & cop.), Sloke O Jehn Bruno (lead), Cardiganshire Jehn Gwyn (silver-lead), Cardigan Jiljah and Wentworth (tin & co.), Red Jook's Kitchen (copper), Crowan Jonet Grange (silver-lead), Cardigan Zaddock Moor (copper), Growan Zarddock Moor (copper), Gambori Zradgock Moor (copper), Gambori Zradgock General (page), Cardigans Zarddock Moor (copper), Gambori Zradgock General (page), Cardigans Zarddock Moor (copper), Gambori Zradgock General (page), Cambori Zradgock General (page), Camb	3 5 0lim. 5 5½ 6 6 80 1 1 ruth 1 5 ogan 15½ 4½ 5 7 7½		4934 Pennant and Craigw 1000 Penralt	en (lead) 3  lead), St. Minver 5  glodd (lead) 4  in), Sancreed 2  y Tavy (copper) 3  tin), Linkinghorne	3 3 4 3 3 4 5 4 7 6 4 1 5 20 240	14 2	Great Work - Leed's 60-in. Wh. Tremayne 36-inch	9.0 55,343 15.2 9.0 31,277 23.6 9.0 30,952 21.9	8-5 2174 61-6 9-7 1600 53-0 6-9 1320 52-8 7-0 3652 55-9 4-6 2062 53-8	74 64 64 66
wm Erfin (lead), Cardiganshire	6 34 4	9	2000 Polgear (copper and 1024 Praed Consols (tin), 1024 Prince Albert (tin), 2500 Ithoswydol and Back	tin) i Towednack 1;	1/1s   1/1s		Taylor   Taylor   Taylor   Taylor   Taylor		50 1358 68-6 11-6 4576 53-2 5-9 2440 62-0 6-4 4844 60-1 7 9 5410 53-6 8-3 4724 54-0 8-0 5461 55-5	76 63 74 79 64 64
Gwm Sebon Gwmystwith (lead), Cardiganshiro Gyfannedd Fawr (lead), Lanegryn Dailrhiew (copper and lead), Brecon Daren (eliver-lead), Cardiganshiro- Borwent (aliver-lead), Durham Dewon Gnoslo North (copper) Dawon and Courienny Consola (copper) Dawon draw Tincroft, North Bovey.	10 10		10000 Ditto New	7	3	Constitution of the		L MARKET, LO	8·2 4050 56·7 5·0 2980 53·8 3·5 1792 63·3	68 64 75
Ding-Dong (tin), Gulval  Dolfrwynog (copper), Merioneth  Drake Walls (tin and copper), Calstoc  Drift Moor (tip), Sancreed	5 7 8 2 5	5	256 South Friendahip Wi 1024 South Plain Wood (c 200 South Speed (copper 9000 South Tamar (silver- 256 South Trelawny (lead 2000 South Wales Mining 256 South Wheal Josiah	a (tin), St. Austell 4 (tin) 3 opper), Broage 3 carnarvonshire 3 carnarvonshire 1 carnarvon	28 30 7# 30 1# 2 4# 5	1 2 W	MONDAY.—Bate's West E rard's West Hartley Nether Vylam 13—Wall's-End Acor —Eden Main 13—Braddyll 12 ichmund 13 3—Denison 12 South Kelloe 13 3—West F 4—Hartley 13 6—Nixon's Market 113 sold 43.	fartley 12 6—East Adair ton 13 6—North Percy n Close 12—Eim Park 1 9 —Hetton 14 3 —Hasw 3 —Heugh Hall 13 3 —Ke fartlepool 13 6—Whitwo	's Main 11—Holywell Hartley 12 6—New Ta 1 9—Gosforth 12 9—We ell 14 3—Russell's Het slice 13 9—South Hartl rth 12—Maclean's Tees	13 6—I snfield 13 Valker 13 iton 13 i ilepool 13
Dyfngwm (lead)  East Balleswidden (lin), Saacreed  East Baset (copper) Redruth  East Boringdon Park  East Buller (copper), near Redruth  East Carn Brea (copper), Redruth	10 3 4 15 17 17 4 3 4 1 5 4 1 5	2 21	280 Spearne Moor (copper 1024 St. Aubyn and Gryll 12000 St. Enoder (copper a 999 St. Minver Consols (copper 128 Tokenbury (copper),	1), near Liskeard   33   1	40 5 5 14 5 14 13	. 64	minot, ito, som, in	with the lettered of the pate.	of death, we have being the	4111
Duke of Cornwall (copper), 8t. Winno Dyfngwm (fead)  East Basel (copper) Redruth  East Buller (copper) Redruth  East Buller (copper), near Redruth  East Buller (copper), Redruth  East Carn Brea (copper), Redruth  East Carn Brea (copper), Redruth  East Carn Brea (copper), Redruth  East Carn (lead), Cardiganshire  East Oaren (lead), Cardiganshire  East Guonia Lake Junction (copper)  East Seton and Wheal Maude, Redruth  East Tarnar Consols (aliver-lead)  East Tolgus (copper), Redruth  East Tolgus (copper), Redruth  East Tolgus (copper), Redruth	17 58 59 17 21 21 21 21 21 14 18s 19s 15	2 19s 20s	2048 Trebell Consols (tin s	pper), Camborne 22 nes (tin and copper) 1 hnoe 11 nud copper), Lanivet 12 t. Teath 1 d) Wadebridge 22 pper), Redruth 6 hoper), Redruth 6	14 14	I D	WEDNESDAY.—Bate's Wy 13 6—Chester Main 12— lolywell 13 6—Howard's We dige's West Hartley 13 6—Norutes 12—West Hartley 13 6—Northumberland 12 3—Walk 4 3—Kepier Grange 13—Lapenison 12—Hartlepool 13—Wilk 14—Hartley 13—Adelate FRIDAY.—Bate's West H	er il 9—Eden Main 13—E nbton 14—Richmund 13 : leugh Hall 13—Kelloe 13 litworth 12—Macloan's T to Tees 13.—Ships at mar artley 12 6—Buddle's W	Braddyll 139—Hetton 14 9—Stewart's 14—White 39—South Hartlepool 1: lees 11 6—South Durhs rket, 213; sold, 94. Jest Hartley 13—Davis	well 12 6 36 Sor am 18 6
East Troscoll East Wheal Frances (copper), St. Agnes East Wheal Frances (copper), Illogan East Wheal George (cop.), Walkham East Wheal Josiah (copper), Tavistock East Wheal Leisure (copper) East Wheal Margaret (in and copper) East Wheal Rashleigh, Lonreath East Wheal Bashleigh, Lonreath East Wheal Bashleigh, Eonreath	pton i 10 E 14 1	10	5000 Treleigh Consols (co) 1000 Trelewith, St. Erth. 600 Trelyon Consols (tin) 1024 Tremar (copper), Lis 2000 Trenance (copper), I 6000 Trenault (lime quarr 512 Trethevy (copper), St	per), Redruth 6 , St. Ive's 4 keard 1 felston 6 ios) 21 t. Clear 9	2 2 2 8 6 7 5 6 1	14 B	ees 14—Hartiey 13—Aceina: FRIDAY.—Bate's West Hartiey 13—Howard's West Lavensworth West Hartiey 13 Lurn 12 3—Hediey 12 3—La- 3 9—Hetton 14—Haswell 14 Hartiepool 14—Heugh Hal- 2 9—Thornley 13—West H6 Hartiey 13.—Ships at mark	Harley Netherton 13— —Tanfield Moor Butes 12- wson 12—Morrison 12 6— 13—Lumley 12 6—Russe 1 12 9—Kelloe 13 9—Sou prilepool 13 6—Whitwort et, 145; sold, 85.	-Longridge's West Haz -Wall's End Gosforth 1 -Lambion Primose 18 3- il's Hetton 13 6-Richt th Hartlepool 18 3-So In 12-Adelaide Tees 13	Brade mund 18 outh Kell 3—Tees
East Wheal Rashleigh, Lonreath East Wheal Rosel East Wheal Russel Eagair Liee Llannhangel-y-Croythin Exmoor Elias (copper), South Molton Forest (copper and silver-lead), Devon Freidd Llaydd Mines (lead). Garran (allver-lead), near Truro Garreg (lead), Fint. Gelli-rel-vin (silver-lead), Careffganshi General Mining Co, for Irsland (copper)	19 35 Gd 14 42 44 45 41 3		512 Treville (lead), Lewa 604 Trowan Consols (tin), 100 Trumpet Consols (tin) 1000 Tyllwyd (lead), Card 4000 Tyn-y-Worglod (alatt 500 Tywarnhayle (cop.), 512 Tywardreath (copper)	Towedneck 7, near Helston, 98 ganshire 2), near Carnarvon 4 Illogan & St. Agnes, 60	9 10 105 21 4 5		Delivery of coals, &c., in th	e port of London during	the month of May :	to gain 201 A the cut
Garras (aliver-lead), near Truro Garreg (lead), Fint Gelli-rel-vin (silver-lead), Cardiganshi General Mining Co. for Ireland (copper Georgia Consols (tin), St. Ive's Gonainena (copper), St. Cleer Grambler and St. Anbyn (copper) Great Bryn Consols (copper and tin).	54 44 45		1024 United Mines (copper 200 United Mines (copper 5000 Warleggan Consols (copper 1024 West Alfred Consols 5000 West Basset (copper 256 West Damsel (copper	St. Ive's	80 90 19 7 53	924	Scotch Welsh. Yorkshire, &c. Small coal Culm Cinders	&c	3 11, 11, 11, 11, 11, 11, 11, 11, 1	436 ,011 ,316 ,591 ,510 ,61
Grambler and St. Aubyn (copper) of Great Bryn Consols (copper and tin). Great Cowarch (silver-lead), Merionet Great Polgooth (tin), St. Austell Great Sheba Cousols (tin and copper). Great Wheal Afried, St. Erth and Phill Great Wheal Baddern (tin and silver-le Great Wheal Martha (cop.), Stoke Cli Great Wheal Rough Tor Consols (cop Great Wheal Rough Tor Consols (cop	1			and tin), Whitchurch 2 1 & cop.), St. Blazey 40 1-lead), Cardiganshire 11 1-pper), St. Blazey 10 10 11 11 11 11 11 11 11 11 11 11 11 1		In	Total imported in Imported in aland coals brought by canal, and other dues were receive iland coals brought by railwi into the Chamber in the mo	ed in May, 1851	51, upon which the City	y's 1641
Great Wheal Marthn (cop.), Stoke Cli Great Wheal Rough Tor Consols (cop. Growa Blate Company, Camellord Gustavna Mines (copper), Camborne Hawke's Point (copper), Uny Lelant Hawkmoor (cop.), Caletock, Gunnia L. Hawkmoor (cop.), Caletock, Gunnia L.	ma		12500 West Polgooth (tin), 5 512 West Providence (tin 200 West Seton (copper), 256 West Sharp Tor (copper) 3000 West Shepherd (silva 940 West Trolgus (copper) 120 West Trethellan (cop	St. Ewe & St. Mewan 1, St. Erth 10 Camborne 67 cper) Linkinghorne 22 r-lead and copper) 2½, Illogan 13 per), Gwennap 15 (copper), Illogan 7 pp (copper), 3 in and copper) 12	1 85 115 120 49 2 2 54 54 20	. 85 In In	nported from January 1 to M nported from January 1 to M	matine Statement of 1850 o	ips 4747 1,859	or amond
Grows Blate Company, Camelrou Gustavus Mines (copper), Camborne Hawke's Point (copper), Uny Lelant Hawkmoor (cop.), Calstock, Gunnis L Edignaton Down Con. (copper), Calst Helvellin Mining Company, Westmorst Hennock (sive	and 15 25 24 121 15 16 16 16 17 16 17 17 18 18 18 19 19 18 19 .	25 21 21	5000 West Wheal Afred 512 West Wheal Frances 1024 West Wheal Friendsh 3715 West Wheal Jewel (ti	copper), Illogan . 7 p (copper)	11 11 19 3 14 11	168	ondon: Printed by RICHARD prictors), at their offices, i quested to be addressed.	Menor sear and public	hed by HENRY ENGLISH here all communication [June 14	t (the pr ms are r 4, 1851.